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Canadian Forestry Service

Service canadien des forêts

Selected Forestry Statistics, Ontario: 1987

46

J. H. Smyth and K. L. Campbell

Information Report O-X-387
Great Lakes Forestry Centre

CA1
EP28
-156



| | | | | | |
|-------------------|----------------|--------------|---------------|----------|----|
| 592 | HARDWOOD | 1 804 876 | SOFTWOOD | 9 400 38 | |
| RESIDUE | 4 62 | WOODCHIPS | 22 170 676 | TOTAL | 56 |
| 1562 | PULP | | METRIC TONNES | 329 | |
| 9 7031 | | 84 1 740.3 | NEWSPRI | | |
| RIO | | % CHANGE | + 22.9 | 5 | |
| 235 | | 487 374 | EXPORT | | |
| 92 | | U.S.A. | 11 247 | U. | |
| OARD | | IMPORT | 472 3 | | |
| 147 569 | 24 | BLEACHED | 78 927 492 | \$8 | |
| SECONDARY FIBER | 4 25 | 2 SHIPMEN | | | |
| 59 225 | PAPER PRODUCTS | 33 59 | 8 965 | | |
| LUMBER PRODUCTION | 71.36 | PINE | 80147 | | |
| 324 498 527 | BIRCH VENEER | 312 375 | TIMBER | | |
| PLYWOOD | 10 596 009 | REGENERATION | 22 465 1 | | |

GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

The Centre specializes in research in forest production, forest protection, forest environment and forest utilization. These programs deal directly with the issue of maintaining and enhancing the resource supply. Activities range from basic to applied and developmental research, and include a significant technology transfer component.

Major activities in forestry development include federal management responsibility for federal-provincial forest management agreements, participation in the National Forestry Statistics program and forest economics research.

Close working relationships are maintained with the Ontario Ministry of Natural Resources, the forest industry, educational institutions specializing in forestry and the biological sciences, and other forestry organizations within the province. The Centre is represented on the Ontario Forestry Council and the Ontario Forestry Research Committee, which have responsibility for coordinating forestry research in Ontario.

It is recognized that forested land must be managed in the best public interest, not only for the wood production essential to our economy, but also for the recreational purposes that are so important to our social well-being. This must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

SELECTED FORESTRY

STATISTICS, ONTARIO: 1987

J.H. SMYTH and K.L. CAMPBELL

GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

GOVERNMENT OF CANADA

1987

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ABSTRACT

Selected Forestry Statistics, Ontario: 1987 contains ready references and valuable information for members of the forestry community and other interested individuals seeking quantitative data on Ontario's forest sector.

Included are statistics on forest management, the forest industry, commodity production and trade, principal statistics by industry group, price indices, financial data, and information on the Canada-Ontario Forest Resource Development Agreement and forest sector collective bargaining settlements.

RÉSUMÉ

Selected Forestry Statistics, Ontario: 1987 est un recueil d'informations facile à consulter qui sera utile aux forestiers et aux autres personnes intéressées à obtenir des données quantitatives sur le secteur forestier en Ontario.

Il s'agit d'un recueil de statistiques concernant l'aménagement des forêts, l'industrie, la production et le commerce des produits forestiers, les statistiques principales de divers groupes composant l'industrie, les indices des prix, les données financières, et les renseignements sur l'Entente Canada-Ontario sur la mise en valeur de la ressource forestière et les conventions collectives.

The FORSTATS (FOREstry STATisticS) Program of the Canadian Forestry Service provides current statistical information on Canada's forest resources, including periodic descriptions and analyses of forest inventory and growth; losses from insects, diseases, and fire; nursery production and silvicultural practice; and social and economic conditions.

The following federal government establishments participate in the FORSTATS Program: Canadian Forestry Service Headquarters in Hull, Que., the Pacific Forestry Centre in Victoria, B.C., the Northern Forestry Centre in Edmonton, Alta., the Great Lakes Forestry Centre in Sault Ste. Marie, Ont., the Laurentian Forestry Centre in Ste-Foy, Que., CFS Maritimes in Fredericton, N.B., the Newfoundland Forestry Centre in St. John's, Nfld., the Petawawa National Forestry Institute in Chalk River, Ont., and the Forest Pest Management Institute in Sault Ste. Marie, Ont. Provincial forestry agencies, other provincial and federal agencies, and the forest industry cooperate in providing data for the program.

FOREWORD

Selected Forestry Statistics, Ontario: 1987 contains a series of tables on Ontario's forest industry, its forest resources and related management activities, depletion, commodity production and trade, employment statistics, principal statistics by industry group, and other related data that will be of interest to members of Ontario's forest community.

Over 60 tables are included in the report. Data have been extracted from a variety of provincial and federal government reports and from other sources. A number of figures have been included to assist the reader in visualizing the data presented in tabular form.

The section that provides information on Ontario's forest resource contains a glossary of forest inventory terms to assist the reader in understanding and interpreting the information provided. A number of tables present information that is based on the eight Ontario Ministry of Natural Resources' administrative regions. Readers who are not familiar with these regions should refer to the map provided in the Appendix.

TABLE OF CONTENTS

Page

SECTION I. FOREST INDUSTRY

| | | |
|------------|--------------------------------|---|
| Table 1.1. | Pulp and paper mills | 1 |
| Table 1.2. | Major sawmills | 6 |
| Table 1.3. | Panelboard industry | 9 |

SECTION II. FOREST INVENTORY

| | |
|---|----|
| Glossary of Inventory Terms | 15 |
| Table 2.1. Area classification | 16 |
| Figure 1. Area classification | 16 |
| Table 2.2. Productive forest land, by ownership | 17 |
| Figure 2. Productive forest land, by ownership | 17 |
| Table 2.3. Gross total volume of production forest, by ownership | 18 |
| Table 2.4. Area and gross total volume of production forest, by ownership, OMNR administrative region and major forest type | 19 |
| Figure 3. Gross total volume of production forest, by OMNR administrative region and major forest type | 20 |
| Figure 4. Area of production forest, by OMNR administrative region and major forest type | 20 |
| Table 2.5. Area and gross total volume of production forest and production forest reserve, by softwood working groups | 21 |
| Table 2.6. Area and gross total volume of production forest and production forest reserve, by hardwood working groups | 21 |

SECTION III. FOREST DEPLETION

| | | |
|------------|---|----|
| Table 3.1. | Hardwood timber harvested on provincial crown lands, by species, 1976-1986 (m ³) | 25 |
| Table 3.2. | Softwood timber harvested on provincial crown lands, by species, 1976-1986 (m ³) | 25 |
| Table 3.3. | Area of land harvested, 1981-1986 (ha) | 26 |
| Table 3.4. | Losses attributable to forest fires, 1965- 1986 | 27 |
| Table 3.5. | Losses attributable to forest fires, by OMNR administrative region, 1973-1986 (ha) | 28 |
| Table 3.6. | Average annual pest-caused losses in On- tario forests, 1977-1981 | 29 |
| Table 3.7. | Spruce budworm and jack pine budworm aerial spray projects, 1987 | 30 |

TABLE OF CONTENTS (cont'd)

Page

SECTION IV. FOREST MANAGEMENT

| | | |
|------------|--|----|
| Table 4.1. | Silvicultural operations on provincial crown lands, 1981-1986 (ha) | 33 |
| Table 4.2. | Silvicultural operations, by ownership, 1986 (ha) | 34 |
| Table 4.3. | Prescribed burning, by ownership type, 1978-1987 (ha) | 35 |
| Table 4.4. | Forest tree production by OMNR administrative region, 1984 | 36 |
| Table 4.5. | Trees shipped, 1984, and planned production, 1985-1986, by province | 37 |
| Table 4.6. | Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, 1983 | 38 |
| Figure 5. | Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, and 1983 | 38 |

SECTION V. COMMODITY PRODUCTION AND SHIPMENTS

| | | |
|-------------|--|----|
| Table 5.1. | Primary forest production, by product, all ownerships, 1972-1984 ('000 m ³) | 41 |
| Table 5.2. | Pulpwood and wood residue consumption, 1971-1986 (m ³) | 42 |
| Table 5.3. | Pulpwood and wood residue consumption, by major region, 1974-1986 ('000 m ³) | 43 |
| Table 5.4. | Wood pulp production and consumption in Ontario and Canada, 1967-1984 | 44 |
| Table 5.5. | Production of pulp and paper mills, 1977-1985 ('000 tonnes) | 45 |
| Table 5.6. | Lumber production, by species, 1970-1985 ('000 m ³) | 46 |
| Table 5.7. | Lumber production in northern Ontario, by OMNR administrative region, 1978-1985 ('000 m ³) | 47 |
| Table 5.8. | Lumber production in southern Ontario, by OMNR administrative region, 1978-1985 ('000 m ³) | 48 |
| Table 5.9. | Wood chip production, by OMNR administrative region, 1977-1985 | 49 |
| Table 5.10. | Roundwood consumption by the sawmill industry, 1970-1984 | 50 |
| Table 5.11. | Shipments of roundwood, by product, 1969-1984 | 51 |
| Table 5.12. | Veneer and plywood production, 1977-1985 | 52 |
| Table 5.13. | Particleboard and waferboard production, 1977-1985 | 53 |

TABLE OF CONTENTS (cont'd)

Page

SECTION VI. COMMODITY TRADE

| | | |
|------------|--|----|
| Table 6.1. | Value of pulp, paper and paper products ex- ported from Ontario, 1986 | 57 |
| Table 6.2. | Value of exports of sawn lumber, laden in Ontario, 1986 | 58 |
| Table 6.3. | Value of veneer and plywood exports, laden in Ontario, 1986 | 59 |
| Table 6.4. | Value of imports of major forest products, Ontario and Canada, 1986 | 60 |
| Table 6.5. | Value of leading exports to the United States, 1986 | 61 |
| Figure 6. | Value of leading exports to the United States, 1986 | 61 |

SECTION VII. PRINCIPAL STATISTICS

| | | |
|-------------|---|----|
| Table 7.1. | Standard industrial classification of forest industries | 65 |
| Table 7.2. | Principal statistics for the forest indus- try in Ontario, 1983, 1984 and 1985 | 66 |
| Table 7.3. | Principal statistics for logging in Ontario, 1970-1985 | 67 |
| Table 7.4. | Principal statistics for wood industries in Ontario, 1970-1985 | 68 |
| Table 7.5. | Principal statistics for sawmills and planing mills in Ontario, 1970-1985 | 69 |
| Table 7.6. | Principal statistics for the veneer and plywood industry in Ontario, 1970-1985 | 70 |
| Table 7.7. | Principal statistics for sash, door and other millwork industries in Ontario, 1970-1985 | 71 |
| Table 7.8. | Principal statistics for the wooden box and pallet industry in Ontario, 1970-1985 | 72 |
| Table 7.9. | Principal statistics for the coffin and casket industry in Ontario, 1970-1985 | 73 |
| Table 7.10. | Principal statistics for other wood indus- tries in Ontario, 1970-1985 | 74 |
| Table 7.11. | Principal statistics for paper and allied industries in Ontario, 1970-1985 | 75 |
| Table 7.12. | Principal statistics for pulp and paper industries in Ontario, 1970-1985 | 76 |
| Table 7.13. | Principal statistics for asphalt roofing manufacturers in Ontario, 1970-1985 | 77 |
| Table 7.14. | Principal statistics for paper, box and bag manufacturers in Ontario, 1970-1985 | 78 |
| Table 7.15. | Principal statistics for other converted paper products in Ontario, 1970-1985 | 79 |

TABLE OF CONTENTS (cont'd)

2430

SECTION VIII. EMPLOYMENT AND EARNINGS

| | | |
|------------|--|----|
| Table 8.1. | Employment in the forest industry, by industry group, Ontario, 1970-1985 | 83 |
| Table 8.2. | Estimated weekly earnings in the Ontario forest sector, 1985, 1986 and 1987 (\$) | 84 |
| Figure 7. | Average weekly earnings in Ontario's forest sector, 1985 and 1986 | 85 |
| Figure 8. | Employment in Ontario's forest industry, by industry group, 1970-1986 | 85 |
| Table 8.3. | Estimated number of employees, by forest sector, in Ontario, 1985-1987 (monthly) | 86 |
| Table 8.4. | Ontario forest sector collective bargaining agreements expiring in 1987 | 87 |
| Table 8.5. | Ontario forest industry collective bargaining agreements expiring in 1987 and 1988, by company | 88 |

SECTION IX. MISCELLANEOUS RELATED DATA

| | | |
|------------|---|-----|
| Table 9.1. | Summary of forest management agreements | 91 |
| Table 9.2. | Canada-Ontario Forest Resource Development Agreement | 96 |
| Table 9.3. | Canada-Ontario Forest Resource Development Agreement, actual fiscal expenditures, 1984-1985 to 1986-1987 (\$'000) | 97 |
| Table 9.4. | Summary of capital and repair expenditures in the forest industry in Ontario and Canada, 1970-1987 (\$ '000,000) | 98 |
| Figure 9. | Forest industry capital and repair expenditures in Ontario, 1970-1985 | 99 |
| Figure 10. | Forest industry capital and repair expenditures in Ontario and Canada, 1970-1985 | 99 |
| Table 9.5. | Corporate taxable income in the forest sector in Canada and Ontario, 1974-1985 (\$'000) | 100 |
| Table 9.6. | Price indices for selected pulp and paper commodities, 1981-1987 | 101 |
| Figure 11. | Price indices for selected pulp and paper commodities, 1981-1986 | 101 |
| Table 9.7. | Selected forest industry selling price indices in Canada, 1981-1987 | 102 |
| Figure 12. | Selected forest industry selling price indices in Canada, 1981-1986 | 102 |

TABLE OF CONTENTS (concl.)

| | <i>Page</i> |
|---|-------------|
| Table 9.8. Industry price indices for selected forest products, 1981-1987 | 103 |
| Table 9.9. Summary of housing starts, by region, 1975-1987 | 104 |
| Figure 13. Housing starts in Canada and Ontario, 1975-1987 | 104 |
| Table 9.10. Population by selected northern Ontario census divisions, 1981 and 1986 | 105 |
| Table 9.11. Population of selected northern Ontario communities, 1981 and 1986 | 106 |

APPENDIX

SECTION I

FOREST INDUSTRY

Table 1.1. Pulp and paper mills.

| Company | Controlling ownership | Products manufactured and capacity | Approximate number of employees |
|---|---|--|---------------------------------|
| 1. Abitibi-Price Inc. Fort William Div. P.O. Box 160 Thunder Bay, P7B 4V8 807-623-6486 | Olympia & York Developments Ltd. (Toronto) | newsprint 430 tonnes/day | 350 |
| 2. Abitibi-Price Inc. P.O. Box 550 Iroquois Falls P0K 1E0 705-258-3931 | Olympia & York Developments Ltd. (Toronto) | newsprint 800 tonnes/day | 1 015 |
| 3. Abitibi-Price Inc. Thunder Bay Div. P.O. Box 2390 Thunder Bay, P7B 5E9 807-863-6235 | Olympia & York Developments Ltd. (Toronto) | newsprint 450 tonnes/day | 375 |
| 4. Abitibi-Price Inc. Provincial Papers Division P.O. Box 2450 Thunder Bay, P7B 5E9 807-683-2110 | Olympia & York Developments Ltd. (Toronto) | fine papers 370 tonnes/day | 850 |
| 5. Atlantic Packaging Products Ltd. 11 Progress Ave. Scarborough, M1P 2Y9 416-298-8101 | Granovsky family (Toronto) | paper/board 350 tonnes/day tissue 60 tonnes/day | 470 |
| 6. Beaver Wood Fibre Company Ltd. Thorold, L2V 3Z8 416-227-6651 | Georgia Pacific International Corporation (Atlanta, Georgia) | paper/board 100,000 tonnes/year | 185 |
| 7. Belkin Paperboard 495 Commissioners St. Toronto, M4M 1A5 416-461-8161 | Keycorp Industries Ltd. (Burnaby, B.C.) | paper/board 325 tonnes/day | 225 |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and capacity | Approximate number of employees |
|---|---|--|---------------------------------|
| 8. Boise Cascade Canada Ltd. 145 Third Street W. Fort Frances, P9A 3N2 807-274-5311 | Boise Cascade Corp. (Boise, Idaho) | bleached softwood kraft pulp 550 tonnes/day groundwood specialty 730 tonnes/day | 895 |
| 9. Boise Cascade Canada Ltd. P.O. Box 5000 Kenora, P9N 3Y1 807-468-6411 | Boise Cascade Corp. (Boise, Idaho) | groundwood pulp 600 tonnes/day unbleached sulphite pulp 300 tonnes/day newsprint 700 tonnes/day | 830 |
| 10. Dominion Cellulose Ltd. 1551 Weston Road Toronto, M6M 4Y4 416-243-3011 | CIP Inc. (Montreal, Quebec) | tissues 250 tonnes/day | 550 |
| 11. Domtar Inc. 800 Second Street W. Cornwall, K6H 5S3 613-932-6620 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | bleached kraft pulp 450 tonnes/day fine papers paperboard 825 tonnes/day | 1 500 |
| 12. Domtar Inc. Red Rock, P0T 2P0 807-886-2211 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | newsprint 200 tonnes/day linerboard 600 tonnes/day | 700 |
| 13. Domtar Inc. 343 Glendale Ave. St. Catharines, L2T 2L9 416-227-3731 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | fine paper/board 200 tonnes/day | 313 |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and capacity | Approximate number of employees |
|--|---|---|---------------------------------|
| 14. Domtar Inc. 7447 Bramalea Road Mississauga, L5S 1C4 416-671-2940 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | linerboard 265 tonnes/day | 115 |
| 15. Domtar Inc. Box 606, Station "J" Toronto, M4J 4Y4 416-425-3111 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | fine paper/board 38 tonnes/day | 100 |
| 16. Domtar Packaging P.O. Box 807 Trenton, K8V 5R8 613-392-6505 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | semichemical pulp 150 tonnes/day corrugating medium 280 tonnes/day | 140 |
| 17. E.B. Eddy Forest Products Ltd. P.O. Box 600 Hull, Quebec J8X 3Y7 613-725-6700 | Eddy Paper Company (Ottawa, Ontario) | fine and specialty paper 168 tonnes/day | 485 |
| 18. E.B. Eddy Forest Products Ltd. Espanola, P0P 1C0 705-869-2020 | Eddy Paper Company (Ottawa, Ontario) | bleached and unbleached kraft pulp 830 tonnes/day fine and specialty paper 108 tonnes/day | 1 008 |
| 19. Fraser Inc. P.O. Box 1046 Thorold, L2V 3Z7 416-227-5271 | Noranda Inc. (Toronto, Ontario) | paper/board 275 tonnes/day | 650 |
| 20. Great Lakes Forest Products Ltd. Box 430 Dryden, P8N 2Z7 807-223-2323 | Canadian Pacific Enterprises Ltd. (Calgary, Alberta) | bleached kraft pulp 720 tonnes/day fine & specialty paper 265 tonnes/day | 1 383 |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and capacity | Approximate number of employees |
|--|---|--|---------------------------------|
| 21. Great Lakes Forest Products Ltd. P.O. Box 430 Thunder Bay, P7C 4W3 807-475-2110 | Canadian Pacific Enterprises Ltd. (Calgary, Alberta) | bleached kraft pulp 1,280 tonnes/day newsprint 1,170 tonnes/day | 3 132 |
| 22. James River-Marathon Inc. Marathon, P0T 2E0 807-229-1200 | James River Corp. (Richmond, Virginia) | bleached kraft pulp 500 tonnes/day | 450 |
| 23. Kimberly-Clark of Canada Ltd. P.O. Box 790 Huntsville, P0A 1K0 705-789-4487 | Kimberly-Clark Corp. (Neenah, Wisconsin) | tissues 100 tonnes/day | 185 |
| 24. Kimberly-Clark of Canada Ltd. St. Catharines, L2T 2L9 416-227-1161 | Kimberly-Clark Corp. (Neenah, Wisconsin) | tissues, specialty papers 90 tonnes/day | 215 |
| 25. Kimberly-Clark of Canada Ltd. Terrace Bay, P0T 2W0 807-825-3211 | Kimberly-Clark Corp. (Neenah, Wisconsin) | bleached sulphate pulp 1,135 tonnes/day | 937 |
| 26. MacMillan Bloedel Ltd. Sturgeon Falls, P0H 2G0 705-753-2170 | Noranda Inc. (Toronto, Ontario) | corrugating medium 200 tonnes/day hardboard (1/8") 463,000 ft ² /day | 400 |
| 27. Nordfibre Co. Box 910 North Bay, P1B 8K1 705-474-2300 | Frank Orsi family | insulating board 120 tonnes/day | 110 |
| 28. Ontario Paper Co. Thorold, L2V 3Z5 416-227-1121 | Tribune Company (Chicago, Illinois) | paper 765 tonnes/day | 1 000 |

(cont'd)

Table 1.1. Pulp and paper mills (concl.).

| Company | Controlling ownership | Products manufactured and capacity | Approximate number of employees |
|--|---|--|---------------------------------|
| 29. Spruce Falls Power & Paper Co. Ltd. P.O. Box 100 Kapuskasing, P5N 2Y2 705-337-1311 | Kimberly-Clark Corp. (Neenah, Wisconsin) New York Times (New York, New York) | newsprint 1,000 tonnes/day | 1 900 |
| 30. Strathcona Paper Company P.O. Box 130 Napanee, K7R 3L6 613-378-6672 | Roman Corp. Ltd. (Toronto, Ontario) | boxboard 140 tonnes/day | 240 |
| 31. St. Marys Paper Inc. 75 Huron Street Sault Ste. Marie, P6A 5P4 705-942-6070 | Northam Inc. Shieldings Investments Ltd. Nordic American Banking Corp. | groundwood specialty papers 80 tonnes/day supercalender paper 210 tonnes/day | 486 |
| 32. Sunoco Ltd. 33 Park Avenue E. Box 1208 Brantford, N3T 5T5 519-752-6591 | Sunoco International Inc. (South Carolina) | paper/board 91 tonnes/day | 240 |
| 33. Trent Valley Paperboard Mills Box 821 Trenton, K8V 5R8 613-392-1231 | Paperboard Industries Corporation (Trenton, Ontario) | paper/board 273 tonnes/day | 290 |
| 34. Waferboard Corp. Ltd. Smooth Rock Falls, P0L 2B0 705-338-4910 | Waferboard Corp. Ltd. (Timmins, Ontario) | bleached kraft pulp 300 tonnes/day | 300 |

Sources: Anon. 1987. Pulp and Paper Canada Annual and Directory. Southam Business Publications. Westmount, Que. 275 p.

Anon. 1987. Directory 87. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96. p.

Andersen, S., and Brownwright, A.J. 1985. Ontario pulp and paper industry: corporate ownership. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Misc. Rep. No. 31. 108 p.

Table 1.2. Major sawmills.

| Company | Products manufactured and average daily production | Approximate number of employees |
|--|--|---------------------------------------|
| 1. Atikokan Forest Products Inc. Atikokan, POT 1C0 807-929-2521 | dimension lumber 566 m ³ /day | 130 |
| 2. A & L Lafreniere Lumber Ltd. P.O. Box 340 Chapleau, POM 1K0 705-864-1060 | dimension lumber 378 m ³ /day | 175 |
| 3. Chapleau Forest Products Ltd. P.O. Box 280 Chapleau, POM 1K0 705-864-1320 | dimension lumber 354 m ³ /day | 120 |
| 4. Consolidated Bathurst Inc. Braeside, K0A 1G0 613-623-4211 | dimension lumber 472 m ³ /day | 230 |
| 5. Custom Sawmill (Hearst) Ltd. Box 460 Hearst, P0L 1N0 705-362-4217 | dimension lumber 826 m ³ /day | 325 |
| 6. Domtar Inc. Box 2000 White River, POM 3G0 807-822-2100 | dimension lumber 307 m ³ /day | 350 |
| 7. Dubreuil Brothers Ltd. Pine St. Dubreuilville, P0S 1B0 705-884-2525 | dimension lumber 826 m ³ /day | 350 |
| 8. E.B. Eddy Forest Products Ltd. Ontario Wood Products Division Nairn Centre, POM 2L0 705-869-4020 | dimension lumber, studs, mining timber 1,652 m ³ /day | 255 |
| 9. E.B. Eddy Forest Products Ltd. McChesney Lumber Division P.O. Box 150 Timmins, P4N 7C9 705-264-2244 | dimension lumber, squares, studs 425 m ³ /day | 150 |

(cont'd)

Table 1.2. Major sawmills (cont'd).

| Company | Products manufactured and average daily production | Approximate number of employees |
|---|---|--|
| 10. Elk Lake Planing Mill Ltd. Box 9 Elk Lake, P0J 1G0 705-678-2110 | dimension lumber 590 m ³ /day | 105 |
| 11. Great Lakes Forest Products Ltd. Box 3001 Dryden, P8N 2Z7 807-223-2323 | 2 x 4 studs 625 m ³ /day | 105 |
| 12. Great Lakes Forest Products Ltd. Box 430 Thunder Bay, P7C 4W3 807-475-2110 | 2 x 4 studs 1,062 m ³ /day | 80 |
| 13. Great West Timber Ltd. Box 3170 Thunder Bay, P7C 4W3 807-344-8464 | dimension lumber 944 m ³ /day | 500 |
| 14. Lecours Lumber Co. Ltd. P.O. Box 9000 Hearst, P0L 1N0 705-362-4369 | dimension lumber 590 m ³ /day | 220 |
| 15. McKenzie Forest Products Inc. Box 190 Hudson, P0V 1X0 807-582-3271 | 2 x 4 studs 850 m ³ /day | 140 |
| 16. Murray Brothers Lumber Co. Ltd. Barry's Bay, K0J 1B0 613-637-2840 | dimension lumber, chips, shavings 590 m ³ /day | 240 |
| 17. Normick Perron Inc. Box 1059 Cochrane, P0L 1C0 705-272-4321 | 2 x 4 studs dimension lumber 656 m ³ /day | 285 (includes particle- board mill) |

(cont'd)

Table 1.2. Major sawmills (concl.).

| Company | Products manufactured and average daily production | Approximate number of employees |
|---|--|---------------------------------------|
| 18. Normick Perron Inc. Box 1120 Kirkland Lake, P2N 3M7 705-642-3216 | 2 x 4 and 2 x 3 studs 519 m ³ /day | 110 |
| 19. Northern Wood Preservers Inc. Box 2990 Thunder Bay, P7B 5G5 807-344-8451 | dimension lumber ties, poles 944 m ³ /day | 350 |
| 20. United Sawmill Ltd. Box 880 Hearst, P0L 1N0 705-362-4227 | dimension lumber 826 m ³ /day | 250 |

Conversion factor: 1000 fbm = 2.35974 m³

Sources: Anon. 1987. Ontario forest industry statistical reports for 1985. Ont. Min. Nat. Resour., Toronto, Ont. 65 p.

Anon. 1987. Directory 1987. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96 p.

Personal communications with representatives of various companies.

Table 1.3. Panelboard industry.

| Company | Approximate number of employees |
|--|---------------------------------------|
| <u>Veneer and plywood producers</u> | |
| 1. Birchland Veneer Ltd. Box 430 Thessalon, P0R 1L0 705-842-2430 | 65 |
| 2. Canada Veneers Ltd. Box 460 Pembroke, K8A 6X7 613-735-6801 | 280 |
| 3. Forest Ply Ltd. Division of Silvaplex Box 389 Gravenhurst, P0C 1G0 705-687-3425 | 35 |
| 4. Interforest Ltd. Box 170 Durham, N0G 1R0 519-369-3310 | 370 |
| 5. Levesque Plywood Ltd. Box 10 Hearst, P0L 1N0 705-362-4242 | 265 |
| 6. MacMillan Bloedel Ltd. Box 910 Nipigon, P0T 2J0 807-887-2018 | 130 |
| 7. G. W. Martin Veneer Ltd. Box 190 Tweed, K0K 3J0 613-478-2140 | 50 |
| 8. G. W. Martin Veneer Ltd. Rutherford, P0H 2E0 705-776-2948 | 200 |

(cont'd)

Table 1.3. **Panelboard industry** (cont'd).

| Company | Approximate number of employees |
|---|---|
| Veneer and plywood producers (cont'd) | |
| 9. G.W. Martin Veneer Ltd. 45 Third Line West Sault Ste. Marie, P6A 5P7 705-759-1500 | 310 |
| 10. G.W. Martin Veneer Ltd. (Hwy. 556, Searchmont) Box 1029 Sault Ste. Marie, P6A 5N5 705-781-2511 | 140 |
| 11. Normick Perron Inc. Box 1059 Cochrane, P0L 1C0 705-272-4321 | 285 (includes sawmill) |
| 12. Pannill Veneer Co. Ltd. 340 Louisa St. Kitchener, N2H 5N2 519-742-5887 | 190 |
| 13. Superior Hardwood Veneer Ltd. R.R. # 4, Gran St. Sault Ste. Marie, P6A 5K9 705-759-0904 | 36 |
| 14. Weldwood of Canada Ltd. Longlac, P0T 2A0 807-876-2796 | 300 (includes waferboard mill) |
| 15. Wilberforce Veneer and Lumber Company Box 130 Wilberforce, K0L 3C0 705-448-2520 | 45 |
| (cont'd) | |

Table 1.3. Panelboard industry (cont'd).

| Company | Approximate number of employees |
|---------|---------------------------------------|
|---------|---------------------------------------|

Veneer and plywood producers (cont'd)

| | |
|---|----|
| 16. Wilkinson Sword Canada Ltd., Splint Division Eddy Match 100 Crandall Street Pembroke, K8A 6X8 613-735-2900 | 52 |
|---|----|

Particleboard producers

| | |
|--|---|
| 1. Domtar Inc. Box 7500 Huntsville, P0A 1K0 705-789-9683 | 144 |
| 2. Levesque Plywood Ltd. Box 10 Hearst, P0L 1N0 705-362-4242 | 265 (includes plywood plant) |
| 3. Pluswood Manufacturing Ltd. Box 1600 Atikokan, P0T 1C0 807-597-6921 | 130 |
| 4. Rexwood Products Ltd. Box 1840 New Liskeard, P0J 1P0 705-647-6775 | 150 |
| 5. Waferboard Corporation Ltd. Box 1100 Timmins, P4N 7J3 705-268-1462 | 165 (includes waferboard mill) |

(cont'd)

Table 1.3. Panelboard industry (concl.).

| Company | Approximate number of employees |
|--|--|
| <u>Waferboard producers</u> | |
| 1. Grant Waferboard Ltd. Box 960 Englehart, P0J 1H0 705-544-2204 | 160 |
| 2. MacMillan Bloedel Ltd. Box 608 Thunder Bay, P7C 4W6 807-939-2541 | 150 |
| 3. Waferboard Corp. Ltd. Box 1100 Timmins, P4N 7H9 705-268-1462 | 165 (includes particle- board) |
| 4. Weldwood of Canada Ltd. Longlac, P0T 2A0 807-876-2796 | 300 (includes veneer & plywood mill) |

Sources: Anon. 1986. Ontario forest industry statistical reports for 1985. Ont. Min. Nat. Resour., Toronto, Ont. 65 p.

Anon. 1987. Directory 1987. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 96 p.

Personal communications with representatives of various companies.

SECTION II

FOREST INVENTORY

Glossary of inventory terms^a.

Forest Inventory

A survey of an area to determine such data as area, condition, timber, volume and species, for specific purposes such as planning, purchasing, evaluating, managing, or harvesting.

Gross Merchantable Volume

Volume of the main stem of trees or stands, excluding stump and top but including defective and decayed wood.

Gross Total Volume

Volume of the main stem of trees or stands, including stump and top as well as defective and decayed wood.

Production Forest

All productive forest land managed primarily for growing timber for industry, unless otherwise reassigned.

Production Forest Reserve

Production forest stands which in the opinion of photo interpreters may constitute a logging or silvicultural problem.

Productive Forest Land

All forest areas capable of growing commercial timber.

Protection Forest

All productive forest land managed primarily to exert beneficial influence on soil, water, and the overall landscape.

Volume

The amount of wood in a tree, stand, or other specified area, according to some unit of measurement or some standard of use.

Working Group

An aggregate of stands, including potential forest areas assigned to this category, having the same predominant species, and managed under the same rotation and broad silvicultural system.

^a Source: Anon. 1986. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.1. Area classification.

| | Provincial Crown (ha) | Patent (ha) | Federal (ha) | Total (ha) |
|----------------|-----------------------------|----------------|-----------------|---------------|
| Water | 8 065 218 | 2 395 | 416 034 | 8 483 647 |
| Non-forested | 212 063 | 6 457 475 | 305 010 | 6 974 548 |
| Non-productive | 4 990 732 | 647 358 | 542 919 | 6 181 009 |
| Productive | 33 646 186 | 5 898 224 | 383 109 | 39 927 519 |
| Total | 46 914 199 | 13 005 452 | 1 647 072 | 61 566 723 |

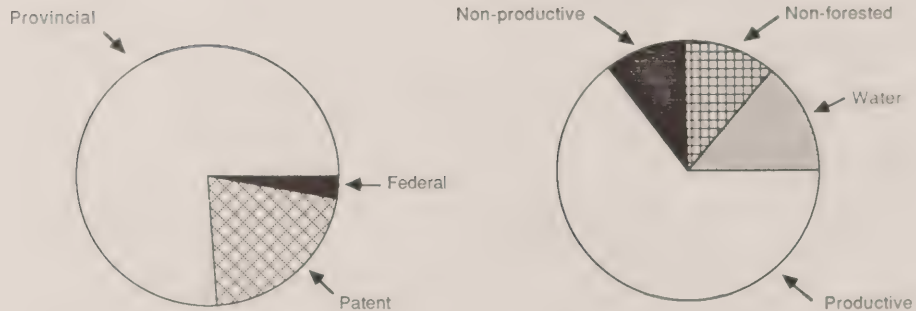


Figure 1. Area classification.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.2. Productive forest land, by ownership.

| | Provincial crown (ha) | Patent (ha) | Federal (ha) | Total (ha) |
|------------------------------|-----------------------------|----------------|-----------------|---------------|
| Protection forest | 1 917 874 | 237 860 | 39 371 | 2 195 105 |
| Production forest reserve | 2 146 166 | 252 569 | 26 603 | 2 425 338 |
| Production forest | 29 582 146 | 5 407 795 | 317 135 | 35 307 076 |
| Total | 33 646 186 | 5 898 224 | 383 109 | 39 927 519 |



Figure 2. Productive forest land, by ownership.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.3. Gross total volume of production forest, by ownership.

| Ownership | Production forest reserve (m ³) | Production forest (m ³) | Total (m ³) |
|-------------------------------|--|---|----------------------------|
| Provincial crown | 235 368 370 | 3 940 920 216 | 4 176 288 586 |
| Recreation reserve | 3 528 253 | 23 733 663 | 27 261 916 |
| Provincial park | 9 006 421 | 180 221 424 | 189 227 845 |
| Sub-total provincial crown | 247 903 044 | 4 144 875 303 | 4 392 778 347 |
| Patent | 24 301 207 | 631 876 039 | 656 167 246 |
| Agreement forest | 398 286 | 10 444 756 | 10 843 042 |
| Sub-total patent | 24 699 493 | 642 320 795 | 667 020 288 |
| Indian reserve | 3 296 009 | 17 059 031 | 20 355 040 |
| Other federal | 40 830 | 22 647 774 | 22 688 604 |
| Sub-total federal crown | 3 336 839 | 39 706 805 | 43 043 644 |
| Total | 275 939 376 | 4 826 902 903 | 5 102 842 279 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.4. Area and gross total volume of production forest, by ownership, OMNR administrative region and major forest type.

| Region/ownership | Softwoods | | | Intolerant hardwoods | | | Tolerant hardwoods | | | Total | |
|----------------------|--------------|-----------------------------|--|----------------------|-----------------------------|--|--------------------|-----------------------------|--|--------------|-----------------------------|
| | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) |
| Northwestern | | | | | | | | | | | |
| Provincial | 8 233 007 | 1 041 778 413 | | 1 191 945 | 212 849 147 | | 10 706 | 1 249 732 | | 9 435 658 | 1 255 877 292 |
| Patent | 116 704 | 12 496 231 | | 138 222 | 18 978 099 | | 8 247 | 749 896 | | 263 173 | 32 224 226 |
| Federal | 58 062 | 7 351 025 | | 39 926 | 6 788 479 | | 2 411 | 349 749 | | 100 399 | 14 489 253 |
| Total | 8 407 773 | 1 061 625 669 | | 1 370 093 | 238 615 725 | | 21 364 | 2 349 377 | | 9 799 230 | 1 302 590 771 |
| North Central | | | | | | | | | | | |
| Provincial | 5 457 543 | 710 517 783 | | 1 893 167 | 311 095 188 | | 1 630 | 183 768 | | 7 352 340 | 1 021 796 739 |
| Patent | 189 382 | 22 403 652 | | 231 416 | 33 367 226 | | 1 081 | 117 372 | | 421 879 | 55 988 250 |
| Federal | 8 742 | 1 163 355 | | 1 507 120 | 1 507 120 | | 374 | 42 259 | | 7 791 062 | 2 718 374 |
| Total | 5 655 667 | 734 084 790 | | 2 132 529 | 345 970 134 | | 3 085 | 348 439 | | 7 791 281 | 1 080 403 363 |
| Northern | | | | | | | | | | | |
| Provincial | 6 508 523 | 862 670 587 | | 2 138 431 | 336 183 769 | | 27 664 | 3 751 980 | | 8 674 618 | 1 202 606 336 |
| Patent | 398 205 | 44 956 083 | | 266 667 | 34 390 691 | | 7 | 654 | | 664 879 | 79 347 428 |
| Federal | 3 721 | 340 303 | | 1 575 | 182 531 | | 0 | 5 296 | | 5 296 | 522 834 |
| Total | 6 910 449 | 907 966 973 | | 2 406 673 | 370 756 991 | | 27 671 | 3 752 634 | | 9 344 793 | 1 282 476 598 |
| Northeastern | | | | | | | | | | | |
| Provincial | 2 072 563 | 290 864 360 | | 1 738 898 | 239 814 682 | | 702 283 | 111 456 400 | | 4 513 744 | 642 135 442 |
| Patent | 384 706 | 42 880 905 | | 437 673 | 50 574 833 | | 282 432 | 44 848 895 | | 1 104 811 | 138 304 633 |
| Federal | 69 045 | 9 160 008 | | 125 978 | 12 337 805 | | 14 264 | 2 506 738 | | 209 287 | 24 004 551 |
| Total | 2 526 314 | 342 905 273 | | 2 302 549 | 302 727 320 | | 998 979 | 158 812 033 | | 5 827 842 | 804 444 626 |
| Algonquin | | | | | | | | | | | |
| Provincial | 436 993 | 71 053 264 | | 345 390 | 53 961 248 | | 688 206 | 106 424 248 | | 1 470 589 | 231 438 760 |
| Patent | 235 899 | 30 808 073 | | 180 306 | 25 596 534 | | 619 873 | 91 671 571 | | 1 036 085 | 148 072 629 |
| Federal | 618 | 10 848 848 | | 1 717 | 1 717 | | 0 | 0 | | 2 429 | 2 429 |
| Total | 672 910 | 101 862 185 | | 525 705 | 79 558 861 | | 1 308 079 | 198 095 819 | | 2 506 694 | 379 516 865 |
| Eastern | | | | | | | | | | | |
| Provincial | 54 782 | 10 448 581 | | 38 328 | 6 393 063 | | 131 380 | 15 038 659 | | 224 490 | 31 880 303 |
| Patent | 287 252 | 27 955 207 | | 101 293 | 11 545 460 | | 551 053 | 50 160 425 | | 939 598 | 89 661 092 |
| Federal | 521 | 41 881 | | 301 | 26 328 | | 1 013 | 72 870 | | 1 835 | 141 079 |
| Total | 342 555 | 38 445 669 | | 139 922 | 17 964 851 | | 683 446 | 65 271 954 | | 1 165 923 | 121 682 474 |
| Central | | | | | | | | | | | |
| Provincial | 8 936 | 1 233 475 | | 6 285 | 1 019 962 | | 21 711 | 2 260 042 | | 36 932 | 4 513 479 |
| Patent | 248 276 | 21 806 942 | | 117 206 | 14 024 421 | | 295 589 | 30 399 183 | | 661 071 | 66 230 546 |
| Federal | 2 427 | 323 055 | | 584 845 | 2 478 | | 231 009 | 231 009 | | 8 322 | 1 138 909 |
| Total | 259 639 | 23 363 472 | | 126 908 | 15 629 228 | | 319 778 | 32 890 234 | | 706 325 | 71 882 934 |
| Southwestern | | | | | | | | | | | |
| Provincial | 7 963 | 1 073 081 | | 3 569 | 500 295 | | 8 409 | 956 620 | | 19 941 | 2 529 996 |
| Patent | 126 980 | 13 642 284 | | 44 021 | 5 406 642 | | 397 872 | 38 199 509 | | 568 873 | 57 288 435 |
| Federal | 0 | 0 | | 1 456 | 24 779 | | 56 | 1 438 | | 1 512 | 26 217 |
| Total | 134 943 | 14 715 365 | | 49 046 | 5 971 716 | | 406 337 | 39 157 567 | | 590 326 | 59 844 648 |
| Totals | | | | | | | | | | | |
| Provincial | 22 780 310 | 2 989 639 544 | | 7 356 013 | 1 161 817 734 | | 1 591 989 | 241 321 449 | | 31 728 312 | 4 392 778 347 |
| Patent | 1 987 404 | 216 949 377 | | 1 516 806 | 193 923 406 | | 2 156 154 | 256 147 505 | | 5 660 364 | 667 020 288 |
| Federal | 142 536 | 18 380 475 | | 180 606 | 21 454 066 | | 20 596 | 3 209 103 | | 343 738 | 43 043 644 |
| Total | 24 910 250 | 3 224 969 396 | | 9 053 425 | 1 377 194 826 | | 3 768 739 | 500 678 057 | | 37 732 414 | 5 102 842 279 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

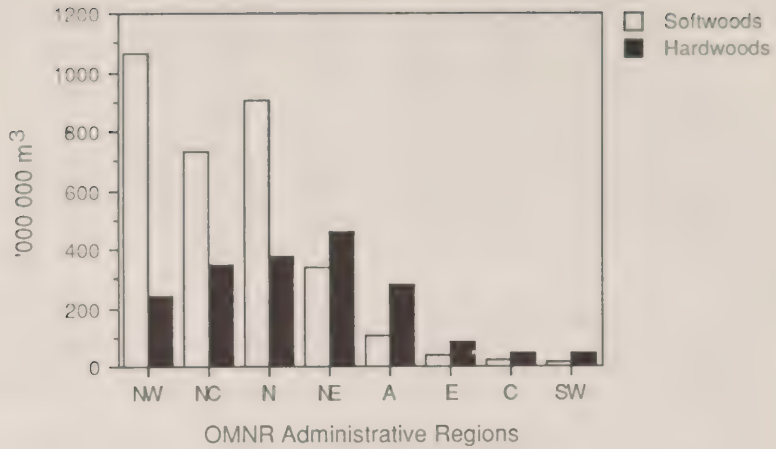


Figure 3. Gross total volume of production forest, by OMNR administrative region and major forest type.

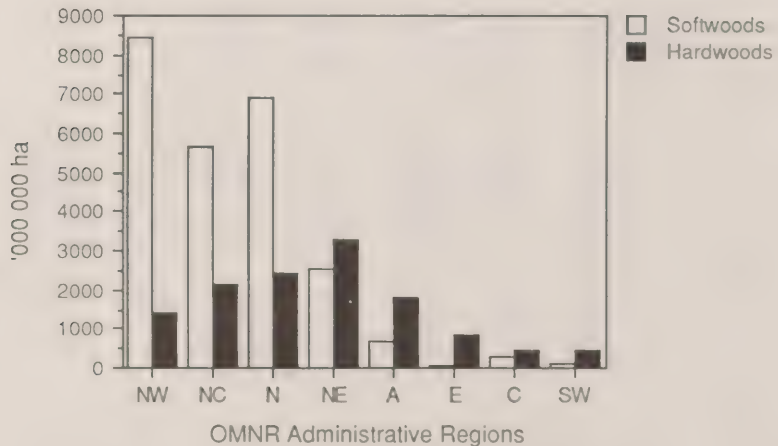


Figure 4. Area of production forest, by OMNR administrative region and major forest type.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.5. Area and gross total volume of production forest and production forest reserve, by softwood working groups.

| Working group | Area (ha) | Volume (m ³) |
|-----------------|--------------|-----------------------------|
| White pine | 659 306 | 111 712 876 |
| Red pine | 182 922 | 22 157 550 |
| Jack pine | 4 986 753 | 652 977 372 |
| Spruce | 15 784 074 | 2 048 820 819 |
| Balsam fir | 2 150 235 | 248 574 878 |
| Hemlock | 125 191 | 22 556 663 |
| Other softwoods | 1 021 769 | 118 169 244 |
| Total softwoods | 24 910 250 | 3 224 969 402 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.6. Area and gross total volume of production forest and production forest reserve, by hardwood working groups.

| Working group | Area (ha) | Volume (m ³) |
|-----------------|--------------|-----------------------------|
| Poplar | 5 787 146 | 1 011 200 056 |
| White birch | 3 266 279 | 365 994 785 |
| Hard maple | 2 760 745 | 384 927 399 |
| Yellow birch | 188 109 | 32 193 980 |
| Other hardwoods | 819 885 | 83 556 673 |
| Total hardwoods | 12 822 164 | 1 877 872 893 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

SECTION III

FOREST DEPLETION

Table 3.1. Hardwood timber harvested on provincial crown lands, by species, 1976-1986 (m³).

| Year ^a | Ash | Basswood | Beech | White birch | Yellow birch | Butter- nut | Cherry | Elm | Maple | Oak | Poplar | Mixed | Total ^b |
|-------------------|-------|----------|--------|----------------|-----------------|----------------|--------|-------|---------|--------|-----------|---------|--------------------|
| 1976 | 1 076 | 6 485 | 9 854 | 61 504 | 123 320 | c | 736 | 1 614 | 221 466 | 7 504 | 687 164 | 109 161 | 1 229 884 |
| 1977 | 1 274 | 6 088 | 12 856 | 63 939 | 122 838 | c | 595 | 878 | 258 844 | 6 456 | 792 672 | 323 633 | 1 590 073 |
| 1978 | 1 303 | 7 759 | 14 696 | 66 290 | 111 115 | c | 821 | 623 | 241 344 | 8 920 | 1 059 586 | 452 984 | 1 965 497 |
| 1979 | 1 864 | 12 009 | 26 846 | 86 832 | 121 078 | 28 | 1 235 | 297 | 292 783 | 12 194 | 1 439 082 | 642 203 | 2 636 451 |
| 1980 | 2 494 | 13 897 | 23 453 | 96 526 | 121 990 | 14 | 1 243 | 306 | 270 417 | 14 362 | 1 509 922 | 677 854 | 2 732 479 |
| 1981 | 1 519 | 9 069 | 15 737 | 62 557 | 90 478 | 16 | 634 | 111 | 178 833 | 10 845 | 1 414 955 | 633 769 | 2 418 525 |
| 1982 | 2 021 | 11 042 | 19 581 | 77 523 | 105 982 | 16 | 1 373 | 39 | 219 345 | 11 389 | 1 800 431 | 647 366 | 2 896 121 |
| 1983 | 1 558 | 7 769 | 18 377 | 93 562 | 78 058 | 36 | 1 584 | 165 | 164 317 | 10 415 | 1 505 038 | 648 316 | 2 529 198 |
| 1984 | 1 516 | 8 544 | 17 999 | 83 668 | 94 616 | 21 | 2 046 | 35 | 204 384 | 14 190 | 2 243 088 | 743 663 | 3 413 771 |
| 1985 | 3 770 | 27 777 | 32 996 | 180 990 | 106 382 | 38 | 2 269 | 19 | 447 911 | 13 960 | 2 641 390 | 852 633 | 4 310 135 |
| 1986 | 1 956 | 12 099 | 39 951 | 253 340 | 109 828 | 43 | 1 830 | 18 | 364 855 | 23 937 | 2 768 308 | 257 607 | 3 833 773 |

^a In year ending 31 March

^b Totals may not be precise because of rounding.

^c No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.2. Softwood timber harvested on provincial crown lands, by species, 1976-1986 (m³).

| Year ^a | Balsam | Cedar | Hemlock | Jack pine | Red pine | Scots pine | White pine | Spruce | Tamarack | Mixed | Total ^b |
|-------------------|---------|--------|---------|--------------|-------------|---------------|---------------|-----------|----------|--------|--------------------|
| 1976 | 273 002 | 14 725 | 47 091 | 2 726 398 | 202 720 | 85 | 446 754 | 4 299 283 | 2 152 | 19 369 | 8 031 607 |
| 1977 | 418 522 | 11 327 | 53 434 | 3 823 306 | 144 444 | c | 492 627 | 6 586 516 | 2 832 | 2 237 | 11 535 216 |
| 1978 | 529 184 | 12 289 | 58 049 | 5 010 884 | 174 205 | c | 586 894 | 7 511 569 | 1 926 | 7 079 | 13 892 165 |
| 1979 | 602 451 | 16 863 | 79 471 | 5 507 057 | 157 209 | c | 533 606 | 8 193 427 | 2 321 | 36 527 | 15 128 932 |
| 1980 | 662 803 | 22 886 | 64 167 | 6 207 462 | 192 051 | c | 607 311 | 8 901 496 | 4 622 | 9 970 | 16 672 766 |
| 1981 | 926 677 | 13 972 | 59 109 | 5 927 897 | 187 494 | c | 495 271 | 8 692 652 | 5 658 | 10 017 | 16 318 746 |
| 1982 | 718 975 | 13 659 | 63 504 | 5 362 713 | 183 663 | c | 529 159 | 7 724 772 | 2 330 | 18 503 | 14 617 179 |
| 1983 | 586 883 | 17 195 | 47 361 | 4 135 200 | 168 759 | c | 563 024 | 6 707 133 | 1 168 | 30 599 | 12 257 322 |
| 1984 | 638 428 | 18 667 | 65 111 | 5 182 626 | 193 575 | c | 754 044 | 8 423 622 | 2 740 | 20 691 | 15 299 504 |
| 1985 | 723 544 | 23 478 | 79 230 | 5 618 274 | 197 854 | c | 728 257 | 8 987 681 | 1 311 | 14 236 | 16 373 865 |
| 1986 | 809 984 | 16 741 | 71 554 | 5 578 024 | 400 155 | c | 654 854 | 8 407 276 | 3 725 | 18 238 | 15 764 214 |

^a In year ending 31 March

^b Totals may not be precise because of rounding.

^c No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.3. Area of land harvested, 1981-1986 (ha).

| Year ^a | Crown lands | FMA ^b | Total crown lands | Agreement forests (municipal) | WIA ^c | Other patent lands | Grand total |
|-------------------|----------------|------------------|-------------------------|-------------------------------------|------------------|--------------------------|----------------|
| 1981 | | | | | | | |
| Evenaged | 166 249 | 19 180 | 185 429 | 165 | 131 | 31 437 | 217 162 |
| Unevenaged | 10 948 | - | 10 948 | 821 | 523 | 13 230 | 25 522 |
| Total | 177 197 | 19 180 | 196 377 | 986 | 654 | 44 667 | 242 684 |
| 1982 | | | | | | | |
| Evenaged | 146 928 | 25 366 | 172 294 | 79 | 134 | 30 280 | 202 787 |
| Unevenaged | 7 229 | - | 7 229 | 827 | 988 | 15 773 | 24 817 |
| Total | 154 157 | 25 366 | 179 523 | 906 | 1 122 | 46 053 | 227 604 |
| 1983 | | | | | | | |
| Evenaged | 126 219 | 42 411 | 168 630 | 2 181 | 151 | 29 375 | 200 337 |
| Unevenaged | 9 561 | - | 9 561 | 219 | 599 | 12 475 | 22 584 |
| Total | 135 780 | 42 411 | 178 191 | 2 400 | 750 | 41 850 | 223 191 |
| 1984 | | | | | | | |
| Evenaged | 110 935 | 31 116 | 142 051 | 1 249 | 188 | 9 598 | 153 086 |
| Unevenaged | 12 956 | - | 12 956 | 85 | 842 | 16 239 | 30 122 |
| Total | 123 891 | 31 116 | 155 007 | 1 334 | 1 030 | 25 837 | 183 208 |
| 1985 | | | | | | | |
| Evenaged | 116 300 | 60 689 | 176 989 | 573 | 949 | 8 808 | 187 319 |
| Unevenaged | 15 479 | - | 15 478 | 323 | 1 265 | 13 420 | 30 487 |
| Total | 131 779 | 60 689 | 192 468 | 896 | 2 214 | 22 228 | 217 806 |
| 1986 | | | | | | | |
| Evenaged | 94 877 | 81 375 | 176 252 | 1 418 | 780 | 6 722 | 185 172 |
| Unevenaged | 14 054 | - | 14 054 | 230 | 1 622 | 16 906 | 32 812 |
| Total | 108 931 | 81 375 | 190 306 | 1 648 | 2 402 | 23 628 | 217 984 |

^a In year ending March 31^b Forest Management Agreements on provincial crown land^c Harvesting on lands managed under the Woodlands Improvement Act

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.4. Losses attributable to forest fires,
1965-1986.

| Year | Crown (ha) | Private (ha) | Total (ha) | No. of fires (ha) |
|------|---------------|-----------------|---------------|-------------------------|
| 1965 | 6 068 | 1 987 | 8 055 | 1 218 |
| 1966 | 3 421 | 2 413 | 5 834 | 1 921 |
| 1967 | 23 768 | 1 930 | 25 698 | 1 465 |
| 1968 | 1 078 | 2 751 | 3 829 | 1 219 |
| 1969 | 1 813 | 669 | 2 482 | 901 |
| 1970 | 22 358 | 1 179 | 23 537 | 1 239 |
| 1971 | 40 284 | 1 689 | 41 973 | 1 790 |
| 1972 | 29 802 | 2 208 | 32 010 | 1 604 |
| 1973 | 2 417 | 1 190 | 3 607 | 1 111 |
| 1974 | 522 641 | 1 346 | 523 987 | 1 625 |
| 1975 | 11 226 | 5 630 | 16 856 | 3 146 |
| 1976 | 536 529 | 7 578 | 544 107 | 3 985 |
| 1977 | 411 752 | 4 564 | 416 316 | 2 049 |
| 1978 | 7 040 | 483 | 7 523 | 940 |
| 1979 | 63 322 | 393 | 63 715 | 1 564 |
| 1980 | 524 893 | 35 847 | 560 740 | 1 779 |
| 1981 | 173 479 | 5 994 | 179 473 | 1 656 |
| 1982 | 2 555 | 1 337 | 3 892 | 1 396 |
| 1983 | 442 156 | 1 499 | 443 655 | 2 244 |
| 1984 | 118 851 | 1 567 | 120 418 | 1 240 |
| 1985 | 682 | 325 | 1 007 | 887 |
| 1986 | 143 243 | 1 869 | 145 112 | 1 088 |

Sources: Anon. Statistics --. Ont. Min. Nat.
Resour., Toronto, Ont. Various issues.

Aviation and Fire Management Centre, Sault
Ste. Marie, Ont., personal communications.

Table 3.5. Losses attributable to forest fires, by OMNR administrative region, 1973-1986 (ha).

| Year | North-western | North Central | Northern | North-eastern | Algonquin | Eastern | Central | South-western | Total |
|------|---------------|---------------|----------|---------------|-----------|---------|---------|---------------|---------|
| 1973 | 1 177 | 1 428 | 413 | 383 | 108 | 91 | 6 | 1 | 3 607 |
| 1974 | 436 587 | 82 198 | 3 870 | 771 | 410 | 112 | 34 | 4 | 523 987 |
| 1975 | 708 | 4 242 | 5 155 | 4 831 | 1 269 | 619 | 18 | 14 | 16 856 |
| 1976 | 360 452 | 164 761 | 14 653 | 3 426 | 671 | 140 | 1 | 1 | 544 106 |
| 1977 | 287 200 | 74 454 | 40 843 | 12 485 | 1 065 | 229 | 38 | 1 | 416 315 |
| 1978 | 952 | 4 377 | 528 | 616 | 864 | 151 | 8 | 27 | 7 523 |
| 1979 | 49 109 | 13 611 | 622 | 96 | 107 | 168 | 2 | .1 | 63 715 |
| 1980 | 374 367 | 177 276 | 7 056 | 1 198 | 184 | 197 | 15 | 13 | 560 307 |
| 1981 | 109 841 | 56 049 | 12 394 | 513 | 318 | 276 | 67 | 14 | 179 473 |
| 1982 | 1 639 | 252 | 422 | 970 | 275 | 233 | 80 | 22 | 3 892 |
| 1983 | 365 248 | 73 993 | 3 379 | 497 | 340 | 187 | 9 | .9 | 443 654 |
| 1984 | 102 051 | 14 887 | 2 963 | 256 | 159 | 73 | 17 | 11 | 120 418 |
| 1985 | 117 | 121 | 324 | 159 | 114 | 144 | 10 | 17 | 1 006 |
| 1986 | 134 380 | 4 156 | 6 302 | 418 | 217 | 65 | 17 | 6 | 145 561 |

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Aviation and Fire Management Centre, Sault Ste. Marie, Ont., personal communications.

Table 3.6. Average annual pest-caused losses in Ontario forests^a, 1977-1981.

| Pest | Tree species | Growth (m ³) | Cull (m ³) | Mortality (m ³) | Total (m ³) |
|-------------------------|--------------|--------------------------|------------------------|-----------------------------|-------------------------|
| | | | ('000) | | |
| Spruce budworm | black spruce | 281 | | 1 188 | 1 469 |
| | white spruce | 151 | | 1 539 | 1 690 |
| | balsam fir | 1 027 | | 9 066 | 10 093 |
| | | 1 459 | | 11 793 | 13 252 |
| Forest tent caterpillar | poplar | 933 | | | 933 |
| | white birch | 59 | | | 59 |
| | sugar maple | 341 | | 653 | 994 |
| | other | 15 | | | 15 |
| | | 1 348 | | 653 | 2 001 |
| Aspen complex | poplar | 155 | | | 155 |
| White birch complex | white birch | 42 | | | 42 |
| Oak complex | red oak | 6 | | 36 | 43 |
| Total, insects | | 3 010 | | 12 482 | 15 493 |
| Root rot | conifers | 1 088 | | 10 765 | 11 853 |
| Wood decay | conifers | | 2 788 | | 2 788 |
| | hardwoods | | 6 257 | | 6 257 |
| | | | 9 045 | | 9 045 |
| Hypoxylon canker | poplar | | | 6 184 | 6 184 |
| Sweetfern rust | jack pine | 32 | 17 | | 49 |
| Diebacks | sugar maple | | | 377 | 377 |
| | white birch | | | 3 702 | 3 702 |
| | red oak | | | 63 | 63 |
| | | | | 4 142 | 4 142 |
| Total, diseases | | 1 120 | 9 062 | 21 091 | 31 273 |
| Total, all pests | | 4 130 | 9 062 | 33 573 | 46 766 |

^a Data are expressed as gross total volume.

Source: Gross, H.L. 1985. The impact of insects and diseases on the forests of Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. 0-X-366.

Table 3.7. Spruce budworm and jack pine budworm aerial spray projects, 1987.

| Project base | Treatment area (ha) | No. of spray aircraft | No. of pointer aircraft | Size of staff |
|----------------------------|---------------------|-----------------------|-------------------------|---------------|
| Terrace Bay-Hagarty | 7 877 | 2 | 1 | 8 |
| Nipigon-Jellico | 8 479 | 2 | 1 | 5 |
| Nipigon ^a | 16 297 | 2 | 1 | 10 |
| Nipigon-Nonwatin | 40 654 | 3 | 1 | 13 |
| Thunder Bay ^a | 9 291 | 6 | 3 | 18 |
| Sioux Lookout ^a | 293 | 1 | 1 | 9 |
| Spruce budworm totals | 82 891 | 16 | 8 | 63 |
| Fort Frances-Worengo | 11 670 | 3 | 1 | 20 |
| Kenora-Minaki | 50 783 | 5 | 2 | 15 |
| Dryden-Vermilion Bay | 27 384 | 5 | 2 | 12 |
| Red Lake-Cochénour | 15 206 | 2 | 1 | 15 |
| Jack pine budworm totals | 105 043 | 15 | 6 | 62 |
| Cumulative totals | 187 934 | 31 | 14 | 125 |

^a Mobile

Source: Hansard. Official Report of Debates. Legislative Assembly of Ontario. 29 June, 1987. No. 35.

SECTION IV

FOREST MANAGEMENT

Table 4.1. Silvicultural operations on provincial crown lands, 1981-1986 (ha).

| Treatment | Year ^a | | | | |
|------------------------------|-------------------|---------|---------|---------|---------|
| | 1981 | 1982 | 1983 | 1984 | 1985 |
| Regeneration | | | | | |
| Planting | | | | | |
| Bare-root | 18 786 | 22 561 | 21 272 | 21 286 | 15 527 |
| Container | 4 829 | 6 357 | 7 305 | 17 889 | 36 963 |
| Hybrid poplar cuttings | 24 | 31 | 19 | 286 | 100 |
| Seeding | 47 296 | 27 869 | 29 857 | 21 180 | 15 908 |
| Scarification | 3 241 | 1 653 | 817 | 1 110 | 879 |
| Strip cutting | 1 562 | 2 879 | 1 445 | 718 | 1 145 |
| Seed tree cutting | 3 934 | 3 100 | 3 215 | 4 204 | 2 489 |
| Shelterwood cutting | 9 794 | 7 738 | 9 431 | 10 308 | 9 232 |
| Clear cutting | 6 202 | 4 909 | 7 552 | 14 121 | 8 960 |
| Total | 95 668 | 77 097 | 80 913 | 91 102 | 91 203 |
| Retreatment | 7 981 | 2 263 | 2 353 | 3 483 | 3 949 |
| Tending | | | | | |
| Hand cleaning | 4 481 | 3 686 | 5 844 | 6 282 | 7 696 |
| Herbicide spraying | 25 404 | 19 668 | 26 165 | 21 125 | 42 023 |
| Thinning, improvement cuts | 8 209 | 6 679 | 6 698 | 6 908 | 6 591 |
| Pruning | 853 | 618 | 756 | 751 | 596 |
| Fertilization, drainage | 166 | 163 | 87 | 207 | 58 |
| Total | 39 113 | 30 814 | 39 550 | 35 273 | 56 964 |
| Site preparation | 51 057 | 53 289 | 67 583 | 74 064 | 83 808 |
| Marking | 43 390 | 38 954 | 37 229 | 42 301 | - |
| Unevenaged management | - | - | - | - | 11 769 |
| Total area treated | 237 209 | 202 417 | 225 275 | 242 740 | 243 744 |
| a For year ending 31 March | | | | | |

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.2. Silvicultural operations, by ownership, 1986^a (ha).

| Treatment | Provincial Crown land | Forest management agreements ^b | Agreement forests | Private ^c | Other private | Total |
|-------------------------------|-----------------------------|---|----------------------|----------------------|------------------|---------|
| Regeneration | | | | | | |
| Planting | | | | | | |
| Bare-root | 11 864 | 10 861 | 216 | 4 757 | 5 693 | 33 391 |
| Container | 17 911 | 20 610 | 42 | 122 | 8 | 38 693 |
| Hybrid poplar cuttings | 294 | 64 | 65 | 4 | 168 | 595 |
| Seeding | 6 949 | 11 734 | 12 | 199 | - | 18 894 |
| Scarification | 501 | 549 | - | - | - | 1 050 |
| Strip cutting | 906 | 735 | - | - | - | 1 641 |
| Seed tree cutting | 2 188 | 173 | - | - | - | 2 361 |
| Shelterwood cutting | 8 771 | - | 61 | 2 | 505 | 9 339 |
| Clear cutting | 5 111 | 4 326 | 17 | 72 | 48 | 9 574 |
| Total | 54 495 | 49 052 | 413 | 5 156 | 6 422 | 115 538 |
| Retreatment | 2 509 | 1 953 | 60 | 1 641 | 51 | 6 214 |
| Tending | | | | | | |
| Hand cleaning | 8 780 | 604 | 442 | 1 578 | 137 | 11 541 |
| Herbicide spraying | 19 223 | 38 343 | 660 | 3 410 | 191 | 61 827 |
| Thinning, improvement cuts | 8 474 | 371 | 1 811 | 1 847 | 2 963 | 15 466 |
| Pruning | 931 | 3 | 977 | 963 | 274 | 3 148 |
| Fertilization, drainage | 6 | 59 | 366 | 4 | 201 | 636 |
| Total | 37 414 | 39 380 | 4 256 | 7 802 | 3 766 | 92 618 |
| Site preparation | 45 379 | 49 308 | 761 | 1 995 | 460 | 97 903 |
| Unevenaged management | 13 508 | 21 | 166 | 928 | 7 698 | 22 321 |
| Total area treated | 150 797 | 137 761 | 5 596 | 15 881 | 18 346 | 328 380 |

^a For year ending March 31^b Provincial crown land^c Lands managed under the Woodlands Improvement Act

Source: Anon. 1985. Statistics 1985. Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.3 Prescribed burning, by ownership type, 1978-1987 (ha).

| Year ^a | Provincial crown land | Forest management agreements ^b | Total provincial crown land | Agreement forests | Private ^c | Total |
|-------------------|-----------------------------|---|--------------------------------------|----------------------|----------------------|--------|
| 1978 | 2 915 | - | 2 915 | - | 34 | 2 949 |
| 1979 | 4 199 | - | 4 199 | 24 | 24 | 4 248 |
| 1980 | 4 063 | - | 4 063 | 22 | 77 | 4 163 |
| 1981 | 2 362 | - | 2 362 | - | - | 2 362 |
| 1982 | 2 401 | - | 2 401 | 8 | - | 2 409 |
| 1983 | 4 826 | 434 | 5 260 | - | 17 | 5 277 |
| 1984 | 3 702 | 799 | 4 501 | - | - | 4 501 |
| 1985 | 3 707 | 123 | 3 830 | - | - | 3 830 |
| 1986 | 6 272 | 2 166 | 8 438 | 23 | - | 8 461 |
| 1987 | 8 221 | 6 074 | 14 295 | 3 | 25 | 14 323 |

^a For year ending 31 March

^b Provincial crown land

^c Lands managed under the Woodlands Improvement Act

Source: Ont. Min. Nat. Resour. Special request.

Table 4.4. Forest tree production by OMNR administrative region, 1984.

| OMNR administrative region | No. of production centres 1984 | Production area 1984 | Seedlings produced ('000 trees) 1984 | Planned production ('000 trees) | |
|----------------------------------|---|----------------------------|--|--|--------|
| | | | | 1985 | 1986 |
| Northwestern | 5 container | 7 290 m ² | 18 376 | n/a | n/a |
| | 1 bare-root | 41 ha | 3 700 | 4 100 | 3 700 |
| North Central | 7 container | 18 111 m ² | 24 173 | n/a | n/a |
| | 2 bare-root | 134 ha | 6 530 | 11 500 | 13 400 |
| Northern | 13 container | 35 194 m ² | 35 662 | n/a | n/a |
| | 3 bare-root | 131 ha | 21 371 | 27 544 | 26 115 |
| Northeastern | 4 container | 7 471 m ² | 8 207 | n/a | n/a |
| | 1 bare-root | 4 ha | 1 471 | 930 | 1 200 |
| Algonquin | - | - | - | - | - |
| Eastern | 2 container | 3 420 m ² | 977 | n/a | n/a |
| | 1 bare-root | 115 ha | 7 752 | 7 200 | 8 200 |
| Central | 1 container | 6 493 m ² | 62 | n/a | n/a |
| | 2 bare-root | 152 ha | 13 056 | 13 188 | 10 360 |
| Southwestern | 1 bare-root | 80 ha | 6 058 | 6 689 | 5 900 |
| Totals | 32 container | 77 979 m ² | 87 457 | 78 731 | 88 986 |
| | 11 bare-root | 657 ha | 59 938 | 71 151 | 68 875 |

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-378.

Table 4.5. Trees shipped, 1984, and planned production, 1985-1986, by province.

| Province | No. of production centres 1984 | Area available for production 1984 | Trees shipped ('000 trees) | | Planned production | |
|----------------------|---|---|----------------------------------|--------------------|-----------------------|------|
| | | | 1984 | 1985 | 1985 | 1986 |
| British Columbia | 26 container 11 bare-root | 240 395 m ² 853 ha | 74 702 53 329 | 155 338 53 696 | 241 598 51 450 | |
| Alberta | 5 container 2 bare-root | 27 115 m ² 100 ha | 15 139 9 600 | 23 740 14 200 | 23 750 12 300 | |
| Saskatchewan | 0 container 4 bare-root | 1 134 m ² 151 ha | 0 10 647 | 765 11 365 | 1 530 18 159 | |
| Manitoba | 2 container 1 bare-root | 6 582 m ² 38 ha | 3 722 2 700 | 7 688 4 500 | 10 360 4 500 | |
| Ontario | 32 container 11 bare-root | 77 979 m ² 761 ha | 81 458 59 938 | 78 731 71 151 | 88 986 68 875 | |
| Quebec | 15 container 8 bare-root | 126 870 m ² 387 ha | 21 500 47 400 | 35 000 66 500 | 99 000 61 000 | |
| New Brunswick | 9 container 2 bare-root | 53 316 m ² 126 ha | 39 802 14 300 | 54 391 13 000 | 54 411 13 000 | |
| Nova Scotia | 8 container 2 bare-root | 27 407 m ² 99 ha | 12 073 4 600 | 23 900 4 400 | 29 754 6 500 | |
| Prince Edward Island | 1 container 1 bare-root | 3 717 m ² 20 ha | 1 214 315 | 1 675 390 | 2 000 400 | |
| Newfoundland | 3 container 1 bare-root | 3 204 m ² 40 ha | 2 439 3 242 | 3 165 7 000 | 3 165 9 000 | |
| Total | 101 container 43 bare-root | 567 719 m ² 2 575 ha | 252 049 206 071 | 384 393 246 202 | 554 554 245 184 | |

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-378.

Table 4.6. Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, 1983.

| | 1977 | | 1979 | | 1981 | | 1983 | |
|--------------|------------------------|-------|-------|-------|-------|---------|-------|---------|
| | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. |
| | ----- \$ 000,000 ----- | | | | | | | |
| Silviculture | 31.9 | 118.2 | 42.3 | 164.5 | 80.4 | 272.3 | 95.5 | 335.9 |
| Protection | 32.0 | 115.3 | 33.4 | 157.8 | 52.3 | 311.6 | 65.2 | 241.6 |
| Access | 31.5 | 216.8 | 32.0 | 284.7 | 43.6 | 265.3 | 71.3 | 229.6 |
| Research | 11.6 | 37.2 | 13.3 | 40.0 | 17.5 | 56.4 | 25.6 | 77.2 |
| Other | 20.4 | 171.8 | 25.6 | 224.6 | 35.9 | 342.1 | 43.3 | 363.5 |
| Total | 127.4 | 659.3 | 146.6 | 871.6 | 229.7 | 1 247.7 | 300.9 | 1 247.8 |

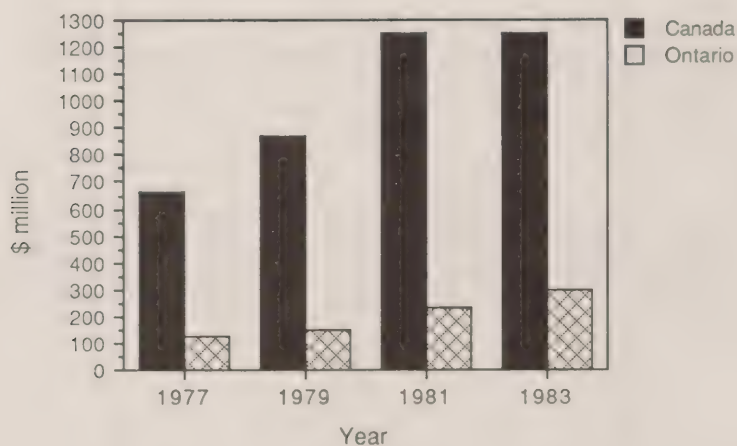


Figure 5. Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, and 1983.

Source: Barron, D.E., Smyth, J.H., Campbell, K.L., and Martel, J.-P. 1986. Forest management expenditures in Canada, 1977-1983. Can. Pulp Pap. Assoc., Woodlands Sect., Montreal, P.Q., and Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 9.

SECTION V

COMMODITY PRODUCTION AND SHIPMENTS

Table 5.1. Primary forest production, by product, all ownerships, 1972-1984
(³'000 m³).

| Year | | Logs and bolts | Pulpwood | Fuelwood | Miscellaneous roundwood | Total |
|------|----------|-------------------|----------|----------|----------------------------|--------|
| 1972 | softwood | 4 176 | 9 197 | 212 | 201 | 13 786 |
| | hardwood | 1 911 | 1 152 | 510 | a | 3 573 |
| 1973 | softwood | 4 587 | 9 868 | 215 | 203 | 14 873 |
| | hardwood | 1 770 | 1 274 | 527 | a | 3 571 |
| 1974 | softwood | 4 191 | 10 562 | 227 | 150 | 15 130 |
| | hardwood | 1 826 | 1 331 | 580 | a | 3 737 |
| 1975 | softwood | 3 653 | 6 966 | 241 | 142 | 11 002 |
| | hardwood | 1 614 | 963 | 637 | a | 3 214 |
| 1976 | softwood | 5 437 | 8 552 | 255 | 193 | 14 437 |
| | hardwood | 1 926 | 850 | 665 | a | 3 441 |
| 1977 | softwood | 5 947 | 9 004 | 198 | 156 | 15 305 |
| | hardwood | 1 968 | 1 302 | 694 | a | 3 964 |
| 1978 | softwood | 6 230 | 9 267 | 255 | 139 | 15 891 |
| | hardwood | 2 025 | 1 337 | 934 | a | 4 296 |
| 1979 | softwood | 6 782 | 9 183 | 297 | 133 | 16 395 |
| | hardwood | 2 350 | 1 586 | 963 | a | 4 899 |
| 1980 | softwood | 6 768 | 9 345 | 255 | 113 | 16 481 |
| | hardwood | 2 293 | 1 458 | 1 090 | a | 4 841 |
| 1981 | softwood | 6 937 | 10 619 | 382 | 127 | 18 065 |
| | hardwood | 1 770 | 1 486 | 1 487 | a | 4 743 |
| 1982 | softwood | 6 139 | 8 835 | 359 | 113 | 15 446 |
| | hardwood | 1 495 | 1 387 | 1 450 | a | 4 332 |
| 1983 | softwood | 7 244 | 10 761 | 431 | 107 | 18 543 |
| | hardwood | 1 764 | 1 689 | 1 740 | a | 5 193 |
| 1984 | softwood | 9 487 | 11 995 | 360 | 7 | 21 849 |
| | hardwood | 2 834 | 1 636 | 1 811 | a | 6 281 |

^a Included with softwood

Source: Statistics Canada. Catalogue No. 25-201.

Table 5.2. Pulpwood and wood residue consumption, 1971-1986 (m³).

| | Pulpwood | | Wood residue (woodchips) | Total |
|------|------------|-----------|-----------------------------|------------|
| | Softwood | Hardwood | | |
| 1971 | 8 826 188 | 1 622 895 | 1 792 745 | 12 241 828 |
| 1972 | 9 246 347 | 1 620 098 | 2 065 747 | 12 932 192 |
| 1973 | 9 231 612 | 1 475 923 | 2 403 626 | 13 111 161 |
| 1974 | 9 921 438 | 1 527 128 | 2 559 116 | 14 007 682 |
| 1975 | 6 739 000 | 933 000 | 1 763 000 | 9 435 000 |
| 1976 | 7 874 789 | 1 257 772 | 2 337 957 | 11 470 518 |
| 1977 | 9 146 015 | 1 304 872 | 3 368 456 | 13 819 343 |
| 1978 | 9 103 189 | 1 560 242 | 3 881 157 | 14 544 588 |
| 1979 | 9 672 002 | 1 519 145 | 4 107 950 | 15 299 097 |
| 1980 | 10 277 540 | 1 431 896 | 4 153 287 | 15 862 723 |
| 1981 | 9 779 330 | 1 655 178 | 4 319 348 | 15 753 856 |
| 1982 | 8 634 784 | 1 528 586 | 3 477 127 | 13 640 497 |
| 1983 | 9 585 687 | 1 885 428 | 4 003 082 | 15 474 197 |
| 1984 | 10 576 541 | 1 836 748 | 4 278 964 | 16 692 253 |
| 1985 | 10 280 000 | 1 785 000 | 3 942 000 | 16 007 000 |
| 1986 | n/a | n/a | n/a | 17 341 357 |

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.

Statistics Canada. Catalogue No. 36-204, 25-001.

Table 5.3. Pulpwood and wood residue consumption, by major region, 1974-1986 ('000 m³).

| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Roundwood | | | | | | | | | | | | | |
| Softwood | | | | | | | | | | | | | |
| Quebec | 15 154 | 12 642 | 12 722 | 12 349 | 12 883 | 13 095 | 11 669 | 12 037 | 11 246 | 10 270 | 10 082 | 11 353 | n/a |
| Ontario | 9 921 | 6 739 | 7 875 | 9 146 | 9 103 | 9 672 | 10 278 | 9 779 | 8 635 | 9 586 | 10 577 | 10 280 | n/a |
| British Columbia | 8 774 | 6 256 | 6 714 | 5 663 | 6 046 | 5 958 | 6 594 | 6 125 | 4 803 | 4 873 | 4 895 | 5 278 | n/a |
| Other provinces | 11 878 | 10 980 | 11 263 | 10 543 | 11 052 | 11 950 | 11 894 | 12 368 | 10 414 | 10 293 | 11 408 | 11 826 | n/a |
| Total | 45 727 | 36 618 | 38 574 | 37 701 | 39 084 | 40 675 | 40 435 | 40 309 | 35 098 | 35 022 | 36 962 | 38 737 | n/a |
| Hardwood | | | | | | | | | | | | | |
| Quebec | 1 574 | 849 | 1 019 | 1 106 | 1 336 | 1 391 | 1 355 | 1 441 | 1 183 | 1 465 | 1 792 | 2 018 | n/a |
| Ontario | 1 527 | 933 | 1 258 | 1 305 | 1 560 | 1 519 | 1 432 | 1 655 | 1 529 | 1 885 | 1 837 | 1 785 | n/a |
| British Columbia | 380 | 179 | 241 | a | a | a | a | a | a | a | a | a | n/a |
| Other provinces | 1 650 | 925 | 830 | 1 931 | 1 843 | 1 326 | 1 240 | 1 312 | 1 116 | 1 383 | 2 006 | 2 079 | n/a |
| Total | 5 131 | 2 886 | 3 348 | 4 342 | 4 739 | 4 236 | 4 027 | 4 408 | 3 828 | 4 733 | 5 635 | 5 882 | n/a |
| Wood Residue | | | | | | | | | | | | | |
| Wood chips | | | | | | | | | | | | | |
| Quebec | 4 819 | 4 406 | 6 780 | 6 263 | 7 868 | 9 764 | 9 694 | 9 994 | 9 635 | 11 473 | 11 857 | 11 883 | n/a |
| Ontario | 2 559 | 1 763 | 2 338 | 3 368 | 3 881 | 4 108 | 4 153 | 4 319 | 3 477 | 4 003 | 4 279 | 3 942 | n/a |
| British Columbia | 16 703 | 13 017 | 19 050 | 18 019 | 19 332 | 20 264 | 20 211 | 18 075 | 17 676 | 20 742 | 19 459 | 21 307 | n/a |
| Other provinces | 3 969 | 2 956 | 4 108 | 3 173 | 3 037 | 3 025 | 3 797 | 3 422 | 2 622 | 2 853 | 4 452 | 3 894 | n/a |
| Total | 28 050 | 22 142 | 32 276 | 30 823 | 34 118 | 37 161 | 37 855 | 35 810 | 33 411 | 39 071 | 40 047 | 41 026 | n/a |
| Other Wood Residue and Scrap | | | | | | | | | | | | | |
| Quebec | b | b | b | 1 155 | 1 276 | 1 365 | 1 336 | 1 363 | 1 142 | 1 350 | 1 060 | 1 689 | n/a |
| Ontario | b | b | b | b | b | b | b | b | b | b | b | b | n/a |
| British Columbia | b | b | b | 1 160 | 1 282 | 1 240 | 1 377 | 1 210 | 1 487 | 1 953 | 1 895 | 2 277 | n/a |
| Other provinces | b | b | b | 775 | 914 | 1 287 | 1 107 | 1 285 | 937 | 977 | 1 202 | 188 | n/a |
| Total | 2 251 | 1 915 | 2 565 | 3 090 | 3 472 | 3 893 | 3 820 | 3 858 | 3 603 | 4 281 | 4 157 | 4 154 | n/a |
| Grand total | 81 159 | 63 560 | 76 763 | 75 956 | 81 413 | 85 965 | 86 131 | 84 385 | 75 940 | 83 108 | 86 801 | 89 799 | 93 506 |

a Insignificant
b Confidential

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.

Statistics Canada, Catalogue No. 36-204.

Table 5.4. Wood pulp production and consumption in Ontario and Canada, 1967-1984.

| Year | Production | | Ont. as % of Can. | Consumption | | Ont. as % of Can. |
|------|---------------------|--------------------|-------------------------|---------------------|--------------------|-------------------------|
| | Ontario (tonnes) | Canada (tonnes) | | Ontario (tonnes) | Canada (tonnes) | |
| 1967 | 3 282 895 | 14 385 555 | 22.8 | 2 494 499 | 10 345 146 | 24.1 |
| 1968 | 3 305 817 | 15 205 889 | 21.7 | 2 472 493 | 10 554 861 | 23.4 |
| 1969 | 3 593 399 | 16 864 460 | 21.3 | 2 674 441 | 11 625 032 | 23.0 |
| 1970 | 3 600 683 | 16 608 604 | 21.7 | 2 672 321 | 11 586 087 | 23.1 |
| 1971 | 3 447 429 | 16 541 206 | 20.8 | 2 579 151 | 11 316 582 | 22.8 |
| 1972 | 3 572 171 | 17 453 405 | 20.5 | 2 629 758 | 11 903 030 | 22.1 |
| 1973 | 3 668 985 | 18 562 565 | 19.8 | 2 826 472 | 12 484 992 | 22.6 |
| 1974 | 3 877 502 | 19 678 159 | 19.7 | 2 981 685 | 13 037 431 | 22.9 |
| 1975 | 2 540 483 | 15 112 744 | 16.8 | 1 861 647 | 10 024 814 | 18.6 |
| 1976 | 3 060 329 | 17 946 114 | 17.1 | 2 327 618 | 11 526 630 | 20.2 |
| 1977 | 3 662 361 | 18 167 792 | 20.2 | 2 718 440 | 11 821 249 | 23.0 |
| 1978 | 4 126 664 | 20 152 457 | 20.5 | 3 198 993 | 13 537 149 | 23.6 |
| 1979 | 4 321 817 | 20 728 490 | 20.8 | 3 383 751 | 13 787 542 | 24.5 |
| 1980 | 4 368 097 | 20 687 143 | 21.1 | 3 332 192 | 13 521 571 | 24.6 |
| 1981 | 4 394 267 | 20 572 085 | 21.4 | 3 264 151 | 13 759 262 | 23.7 |
| 1982 | 3 752 791 | 18 513 570 | 20.3 | 2 878 170 | 12 358 890 | 23.3 |
| 1983 | 4 216 883 | 20 195 267 | 20.9 | a | a | a |
| 1984 | 4 365 776 | 20 463 574 | 21.3 | a | a | a |

a No longer reported

Source: Statistics Canada, Catalogue No. 36-204.

Table 5.5. Production of pulp and paper mills, 1977-1985 ('000 tonnes).

| Year | Wood pulp ^a | | | | Total Pulp | Paper ^b | | |
|------|------------------------|----------|----------|-------------|------------|--------------------|----------------------------|----------------------|
| | Groundwood | Sulphite | Sulphate | Other Pulps | | Newsprint | Other paper/ Paperboard | Total paperboards |
| 1977 | 1 402.6 | 729.1 | 1 328.2 | 150.3 | 3 610.2 | 1 645.3 | 902.9 | 2 548.1 |
| 1978 | 1 479.8 | 612.0 | 1 566.7 | 144.1 | 3 849.2 | 1 759.4 | 939.3 | 2 698.7 |
| 1979 | 1 549.2 | 551.9 | 1 646.4 | 194.3 | 3 941.8 | 1 814.0 | 1 085.0 | 2 899.0 |
| 1980 | 1 486.7 | 536.6 | 1 799.1 | 185.1 | 4 007.6 | 1 788.7 | 1 077.5 | 2 866.2 |
| 1981 | 1 454.0 | 497.3 | 1 732.4 | 267.3 | 3 951.0 | 1 809.5 | 1 001.1 | 2 810.6 |
| 1982 | 1 150.6 | 379.4 | 1 561.5 | 231.0 | 3 322.6 | 1 511.6 | 952.5 | 2 464.1 |
| 1983 | 1 186.7 | 473.5 | 1 716.4 | 395.9 | 3 772.6 | 1 651.5 | 1 039.8 | 2 691.4 |
| 1984 | 1 288.6 | 503.1 | 1 903.2 | 416.5 | 4 111.4 | 1 824.8 | 1 122.5 | 2 947.3 |
| 1985 | 1 193.0 | 469.5 | 1 893.2 | 424.1 | 3 979.9 | 1 744.5 | 1 181.5 | 2 926.1 |

^a Wood pulp production includes both integrated pulp and paper mills and non-integrated pulp mills.

^b Paper production does not include non-integrated mills.

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont.
Annual, various issues.

Table 5.6. Lumber production, by species, 1970-1985 ('000 m³).

| Year | Spruce, balsam and jack pine | Red and white pine | Hem- lock | Other soft- woods | Total soft- woods | Birch | Elm | Oak | Maple | Poplar | Other hard- woods | Mixed hard- woods | Total hard- woods | Total lumber, all species ^a |
|------|--|-----------------------------|--------------|-------------------------|-------------------------|-------|------|------|-------|--------|-------------------------|-------------------------|-------------------------|---|
| 1970 | 1 098.4 | 314.3 | 48.7 | 9.6 | 1 471.3 | 75.9 | 55.8 | n/a | 219.4 | 36.2 | 81.6 | n/a | 470.6 | 1 942.2 |
| 1971 | 1 360.9 | 288.5 | 33.1 | 11.6 | 1 694.2 | 76.2 | 39.6 | n/a | 237.3 | 30.6 | 91.2 | n/a | 475.4 | 2 169.6 |
| 1972 | 1 499.9 | 305.8 | 34.0 | 8.8 | 1 848.8 | 88.1 | 37.7 | n/a | 272.1 | 35.4 | 93.4 | n/a | 550.2 | 2 375.5 |
| 1973 | 1 938.6 | 372.4 | 37.7 | 10.8 | 2 359.6 | 66.3 | 30.9 | n/a | 293.4 | 75.9 | 136.8 | n/a | 602.9 | 2 962.5 |
| 1974 | 1 858.7 | 344.3 | 41.6 | 11.9 | 2 256.3 | 86.1 | 25.8 | n/a | 319.7 | 60.3 | 120.9 | n/a | 612.8 | 2 869.3 |
| 1975 | 1 583.5 | 329.6 | 37.7 | 14.4 | 1 965.2 | 59.2 | 15.9 | 22.4 | 225.7 | 44.2 | 51.2 | 23.5 | 445.7 | 2 410.9 |
| 1976 | 1 961.2 | 367.0 | 35.4 | 12.7 | 2 376.3 | 83.0 | 37.4 | 21.0 | 221.7 | 42.5 | 54.1 | 29.2 | 489.0 | 2 865.4 |
| 1977 | 2 483.5 | 374.9 | 51.2 | 8.9 | 2 918.6 | 67.8 | 8.5 | 27.2 | 275.5 | 57.5 | 69.9 | 19.3 | 525.6 | 3 444.2 |
| 1978 | 2 826.1 | 460.4 | 51.8 | 11.3 | 3 349.6 | 67.1 | 9.6 | 36.8 | 306.1 | 69.7 | 76.5 | 77.6 | 643.4 | 3 993.0 |
| 1979 | 2 778.4 | 428.7 | 58.9 | 31.7 | 3 297.8 | 75.6 | 6.1 | 39.0 | 344.7 | 83.2 | 109.1 | 37.5 | 685.6 | 3 983.4 |
| 1980 | 3 079.3 | 434.7 | 60.4 | 34.0 | 3 608.0 | 73.7 | 11.3 | 35.2 | 303.5 | 77.9 | 83.5 | 88.8 | 673.8 | 4 281.8 |
| 1981 | 3 108.3 | 429.4 | 69.5 | 17.5 | 3 617.0 | 80.2 | 3.0 | 40.3 | 276.3 | 93.1 | 84.2 | 33.1 | 610.1 | 4 227.1 |
| 1982 | 2 358.2 | 382.5 | .8 | 9.9 | 2 793.0 | 47.9 | 1.6 | 35.0 | 208.2 | 56.7 | 55.1 | 46.0 | 450.3 | 3 243.3 |
| 1983 | 3 055.4 | 488.5 | 49.0 | 13.2 | 3 606.0 | 52.7 | b | 40.2 | 264.0 | 76.5 | 55.4 | 28.2 | 510.6 | 4 116.6 |
| 1984 | 3 335.8 | 566.1 | 48.2 | 22.2 | 3 972.2 | 71.2 | b | 51.8 | 246.1 | 79.9 | 88.1 | 48.9 | 586.2 | 4 558.4 |
| 1985 | 3 625.5 | 541.9 | 48.4 | 14.0 | 4 229.0 | 78.9 | b | 51.3 | 258.4 | 98.6 | 90.8 | 76.0 | 654.1 | 4 883.0 |

^a Totals may not be precise because of rounding.

^b No longer reported

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.7. Lumber production in northern Ontario, by OMNR administrative region, 1978-1985 ('000 m³).

| Year | Type | OMNR administrative region | | | | Total |
|------|----------|----------------------------|---------------|----------|---------------|---------|
| | | North-western | North Central | Northern | North-eastern | |
| 1978 | softwood | 256.0 | 824.0 | 1 352.4 | 555.7 | 2 988.1 |
| | hardwood | .5 | 79.7 | 5.1 | 112.2 | 197.5 |
| | | 256.5 | 903.7 | 1 357.5 | 667.9 | 3 185.6 |
| 1979 | softwood | 262.3 | 633.8 | 1 496.8 | 529.8 | 2 922.7 |
| | hardwood | 3.7 | 27.1 | 10.0 | 130.6 | 171.3 |
| | | 266.0 | 660.9 | 1 506.8 | 660.4 | 3 094.0 |
| 1980 | softwood | 250.9 | 873.4 | 1 489.8 | 614.8 | 3 228.0 |
| | hardwood | 2.3 | 28.9 | 9.7 | 145.9 | 186.7 |
| | | 253.2 | 902.3 | 1 499.5 | 660.7 | 3 415.7 |
| 1981 | softwood | 301.1 | 829.8 | 1 462.8 | 686.2 | 3 279.0 |
| | hardwood | 1.9 | 37.7 | 10.3 | 123.8 | 173.8 |
| | | 303.0 | 867.5 | 1 473.1 | 810.0 | 3 453.7 |
| 1982 | softwood | 229.5 | 524.7 | 1 197.5 | 559.3 | 2 510.1 |
| | hardwood | 1.3 | 10.4 | 59.0 | 77.8 | 149.5 |
| | | 230.8 | 535.1 | 1 257.5 | 637.0 | 2 660.6 |
| 1983 | softwood | 375.0 | 739.1 | 1 480.0 | 620.0 | 3 214.1 |
| | hardwood | .3 | 2.9 | 8.3 | 106.7 | 118.2 |
| | | 375.3 | 742.0 | 1 488.3 | 726.7 | 3 332.3 |
| 1984 | softwood | 352.2 | 849.2 | 1 494.4 | 867.2 | 3 563.0 |
| | hardwood | 1.6 | 4.5 | 6.9 | 107.9 | 120.9 |
| | | 353.8 | 853.7 | 1 501.3 | 975.1 | 3 683.9 |
| 1985 | softwood | 369.9 | 980.0 | 1 539.2 | 944.4 | 3 833.5 |
| | hardwood | .4 | 3.2 | 4.8 | 112.5 | 120.9 |
| | | 370.3 | 983.2 | 1 544.0 | 1 056.9 | 3 954.4 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.8. Lumber production in southern Ontario, by OMNR administrative region, 1978-1985 ('000 m³).

| Year | Type | OMNR administrative region | | | | Total |
|------|----------|----------------------------|--------------|--------------|---------------|--------------|
| | | Algonquin | Eastern | Central | South-western | |
| 1978 | softwood | 321.4 | 28.9 | 5.8 | 5.3 | 361.5 |
| | hardwood | 200.2 | 70.1 | 39.3 | 136.3 | 445.9 |
| | | <u>521.6</u> | <u>99.0</u> | <u>45.1</u> | <u>141.5</u> | <u>807.4</u> |
| 1979 | softwood | 333.0 | 26.9 | 7.9 | 7.2 | 375.1 |
| | hardwood | 269.1 | 83.5 | 54.5 | 107.2 | 514.3 |
| | | <u>602.1</u> | <u>110.4</u> | <u>62.4</u> | <u>114.4</u> | <u>889.4</u> |
| 1980 | softwood | 333.3 | 26.5 | 13.3 | 5.9 | 379.0 |
| | hardwood | 223.7 | 94.4 | 57.3 | 111.7 | 487.0 |
| | | <u>556.0</u> | <u>120.9</u> | <u>70.6</u> | <u>117.6</u> | <u>866.0</u> |
| 1981 | softwood | 276.9 | 43.5 | 12.1 | 4.4 | 336.9 |
| | hardwood | 225.6 | 61.1 | 46.3 | 103.4 | 436.3 |
| | | <u>502.5</u> | <u>104.6</u> | <u>58.4</u> | <u>107.8</u> | <u>773.2</u> |
| 1982 | softwood | 217.3 | 33.5 | 24.3 | 5.2 | 280.2 |
| | hardwood | 190.2 | 51.3 | 47.7 | 84.9 | 374.2 |
| | | <u>407.5</u> | <u>84.8</u> | <u>72.0</u> | <u>90.1</u> | <u>654.4</u> |
| 1983 | softwood | 319.7 | 44.5 | 24.4 | 3.2 | 391.8 |
| | hardwood | 215.6 | 42.8 | 45.7 | 88.3 | 392.4 |
| | | <u>535.3</u> | <u>87.3</u> | <u>70.1</u> | <u>91.5</u> | <u>784.2</u> |
| 1984 | softwood | 328.1 | 35.6 | 41.9 | 3.5 | 409.1 |
| | hardwood | 247.6 | 47.6 | 61.1 | 108.9 | 465.2 |
| | | <u>575.7</u> | <u>83.2</u> | <u>103.0</u> | <u>112.4</u> | <u>874.3</u> |
| 1985 | softwood | 319.7 | 37.7 | 33.4 | 4.6 | 395.4 |
| | hardwood | 294.6 | 52.3 | 66.3 | 119.8 | 533.0 |
| | | <u>614.3</u> | <u>90.0</u> | <u>99.7</u> | <u>124.4</u> | <u>928.4</u> |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.9. Wood chip production, by OMNR administrative region, 1977-1985.

| Year | OMNR administrative region | | | |
|------|------------------------------------|---|---|----------------------------|
| | North Central (m ³) | Northern and Northeastern (m ³) | All other regions (m ³) | Total (m ³) |
| 1977 | 1 193 712 | 1 985 673 | 388 656 | 3 568 041 |
| 1978 | 1 438 356 | 2 110 467 | 492 001 | 4 040 825 |
| 1979 | 1 479 480 | 2 429 411 | 656 260 | 4 565 153 |
| 1980 | 1 342 023 | 2 691 778 | 484 693 | 4 618 495 |
| 1981 | 1 187 420 | 2 591 994 | 502 637 | 4 282 051 |
| 1982 | 853 698 | 2 224 792 | 345 690 | 3 425 840 |
| 1983 | 1 510 400 | 2 708 744 | 618 044 | 4 823 166 |
| 1984 | 1 844 864 ^a | 3 155 926 | 746 710 | 5 747 500 |
| 1985 | 1 931 123 ^a | 3 436 658 | 696 631 | 6 064 412 |

^a Includes Northwestern and North Central Regions

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.10. Roundwood consumption by the saw-mill industry, 1970-1984.

| Year | Softwood ('000 m ³) | Hardwood ('000 m ³) | Total ('000 m ³) |
|------|-------------------------------------|-------------------------------------|----------------------------------|
| 1970 | 3 569 | 1 099 | 4 668 |
| 1971 | 3 855 | 919 | 4 804 |
| 1972 | 3 810 | 1 056 | 4 866 |
| 1973 | 4 615 | 1 100 | 5 715 |
| 1974 | 4 774 | 1 195 | 5 969 |
| 1975 | 3 624 | 750 | 4 374 |
| 1976 | 4 374 | 778 | 5 152 |
| 1977 | 5 957 | 799 | 6 756 |
| 1978 | 6 641 | 836 | 7 477 |
| 1979 | 7 751 | 927 | 8 678 |
| 1980 | 8 744 | 853 | 9 597 |
| 1981 | 7 929 | 861 | 8 790 |
| 1982 | 6 778 | 601 | 7 379 |
| 1983 | 7 091 | 626 | 7 717 |
| 1984 | 7 555 | 600 | 8 155 |

Source: Statistics Canada. Catalogue No. 35-204.

Table 5.11. Shipments of roundwood, by product, 1969-1984.

| Year | Logs, bolts and other roundwood | | | | | | | | | | Pulpwood | | | | | | | | | | Total roundwood | | | | | | | | | |
|------|---------------------------------|---------|-------------------|--------|--------|----------|--------|---------|------|--------|----------|-------|---------|--|--------|----------|--|--------|---------|--|-----------------|--------|----------|------|--------|--|------|-------|--|--|
| | Softwood ^a | | | | | Hardwood | | | | | Total | | | | | Softwood | | | | | | | Hardwood | | | | | Total | | |
| | Quant. ^b | | Val. ^c | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | Quant. | | Val. | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1969 | 2 372 | 24 353 | | 736 | 11 064 | | 3 013 | 33 932 | | 11 395 | 142 701 | 1 509 | 15 009 | | 12 904 | 157 710 | | 16 012 | 193 127 | | | | | | | | | | | |
| 1970 | 2 206 | 23 248 | | 557 | 8 356 | | 2 700 | 30 557 | | 10 639 | 140 176 | 1 283 | 12 702 | | 11 922 | 152 078 | | 14 684 | 184 482 | | | | | | | | | | | |
| 1971 | 2 680 | 29 785 | | 606 | 9 205 | | 3 214 | 37 684 | | 9 336 | 129 269 | 1 051 | 9 643 | | 10 387 | 138 912 | | 13 672 | 177 902 | | | | | | | | | | | |
| 1972 | 3 134 | 36 219 | | 706 | 10 839 | | 3 760 | 45 463 | | 10 780 | 147 679 | 1 085 | 10 533 | | 11 865 | 158 212 | | 15 704 | 205 270 | | | | | | | | | | | |
| 1973 | 2 696 | 33 940 | | 690 | 11 192 | | 3 349 | 44 416 | | 11 142 | 162 605 | 1 203 | 13 975 | | 12 345 | 176 580 | | 15 731 | 221 712 | | | | | | | | | | | |
| 1974 | 2 882 | 40 841 | | 733 | 13 935 | | 3 575 | 53 865 | | 11 298 | 209 913 | 1 524 | 16 413 | | 12 822 | 226 326 | | 16 438 | 281 102 | | | | | | | | | | | |
| 1975 | 2 629 | 46 432 | | 494 | 12 612 | | 3 023 | 56 584 | | 7 866 | 174 412 | 594 | 9 883 | | 8 460 | 184 295 | | 11 583 | 243 339 | | | | | | | | | | | |
| 1976 | 2 521 | 51 189 | | 523 | 13 154 | | 3 021 | 63 578 | | 8 877 | 222 776 | 1 061 | 19 876 | | 9 938 | 242 652 | | 12 983 | 306 995 | | | | | | | | | | | |
| 1977 | 3 641 | 79 086 | | 609 | 14 839 | | 4 203 | 92 994 | | 9 370 | 255 049 | 1 182 | 24 417 | | 10 552 | 279 466 | | 14 802 | 373 391 | | | | | | | | | | | |
| 1978 | 4 115 | 100 439 | | 652 | 17 220 | | 4 763 | 117 557 | | 9 916 | 282 712 | 1 193 | 27 671 | | 11 109 | 310 383 | | 15 877 | 428 042 | | | | | | | | | | | |
| 1979 | 4 145 | 112 307 | | 727 | 21 684 | | 4 872 | 133 991 | | 10 053 | 314 650 | 1 323 | 34 414 | | 11 375 | 349 064 | | 16 248 | 483 055 | | | | | | | | | | | |
| 1980 | 4 545 | 132 448 | | 700 | 22 129 | | 5 245 | 154 577 | | 10 291 | 341 071 | 1 207 | 31 127 | | 11 498 | 372 198 | | 16 743 | 526 775 | | | | | | | | | | | |
| 1981 | 3 581 | 118 481 | | 1 062 | 37 251 | | 4 643 | 155 732 | | 10 075 | 363 999 | 2 137 | 66 779 | | 12 212 | 430 778 | | 16 855 | 586 510 | | | | | | | | | | | |
| 1982 | 2 998 | 100 883 | | 862 | 26 135 | | 3 859 | 126 926 | | 10 059 | 348 578 | 1 909 | 64 094 | | 11 968 | 412 672 | | 15 828 | 539 690 | | | | | | | | | | | |
| 1983 | 3 975 | 137 052 | | 687 | 27 328 | | 4 662 | 164 380 | | 9 879 | 379 779 | 2 387 | 83 058 | | 12 266 | 462 837 | | 16 928 | 627 217 | | | | | | | | | | | |
| 1984 | 5 062 | 177 067 | | 1 000 | 33 988 | | 6 062 | 211 055 | | 9 089 | 378 924 | 3 138 | 103 125 | | 12 228 | 482 049 | | 18 290 | 693 104 | | | | | | | | | | | |

^a Includes other hardwood^b '000 m³^c \$'000

Source: Statistics Canada. Catalogue No. 25-201.

Table 5.12. Veneer and plywood production,
1977-1985.

| Year | Veneer (m ³) | Plywood (m ³) | Total (m ³) |
|------|-----------------------------|------------------------------|----------------------------|
| 1977 | 77 222 | 189 146 | 266 368 |
| 1978 | 98 344 | 212 517 | 310 861 |
| 1979 | 100 117 | 189 723 | 289 840 |
| 1980 | 112 775 | 194 193 | 306 968 |
| 1981 | 102 307 | 201 554 | 303 861 |
| 1982 | 93 391 | 154 884 | 248 275 |
| 1983 | 110 645 | 185 925 | 296 570 |
| 1984 | 197 441 | 105 425 | 302 866 |
| 1985 | 161 465 | 97 897 | 259 362 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.13. Particleboard and waferboard production, 1977-1985.

| Year | Particleboard (m ³) | Waferboard (m ³) | Total (m ³) |
|------|------------------------------------|---------------------------------|----------------------------|
| 1977 | 228 235 | 250 273 | 478 508 |
| 1978 | 279 718 | 324 745 | 604 463 |
| 1979 | 284 814 | 377 885 | 662 699 |
| 1980 | 318 271 | 316 412 | 634 683 |
| 1981 | 320 811 | 339 591 | 660 402 |
| 1982 | 235 348 | 258 644 | 493 992 |
| 1983 | 256 207 | 460 195 | 716 402 |
| 1984 | 235 453 | 557 377 | 792 830 |
| 1985 | 280 779 | 542 579 | 823 358 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

SECTION VI

COMMODITY TRADE

Table 6.1. Value of pulp, paper and paper products exported from Ontario, 1986.

| | Ontario - - - - - \$,000 | Canada - - - - - | Exports |
|---|-----------------------------|---------------------|---------------------------|
| | | | Ontario as % of Canada |
| Pulp | | | |
| Dissolving and special alpha | a | 144 339.3 | a |
| Sulphate, paper grades | | | |
| Bleached softwood | 468 377.8 | 2 940 527.3 | 15.9 |
| Bleached hardwood | 61 049.6 | 287 252.5 | 21.3 |
| Semi-bleached | 6 306.6 | 182 545.8 | 3.5 |
| Unbleached | 5 203.2 | 63 060.1 | 8.3 |
| Sulphite, paper grades | | | |
| Bleached | a | a | a |
| Unbleached, strong | a | 24 193.7 | a |
| Unbleached, news grade | a | a | a |
| Mechanical | | | |
| Bleached | a | 22 102.5 | a |
| Unbleached | 21.0 | 113 736.0 | .02 |
| Other pulps | 36.8 | 74 434.9 | .1 |
| Newsprint | 1 074 993.8 | 5 666 972.5 | 19.0 |
| Other paper and paperboard | | | |
| Wrapping paper | | | |
| Bleached sulphite and sulphate | 19 959.6 | 29 384.8 | 67.9 |
| Unbleached sulphite and sulphate | 1 619.5 | 133 968.1 | 1.2 |
| Miscellaneous furnishes | 1 341.7 | 2 537.9 | 52.9 |
| Wrapping paper (not elsewhere specified) | 713.0 | 3 783.1 | 18.9 |
| Book, writing and other printing | | | |
| Groundwood printing | 283 201.2 | 484 910.5 | 58.4 |
| Paper for printing | 62 318.9 | 124 321.6 | 50.1 |
| Writing and reproduction | 36 808.0 | 52 602.7 | 70.0 |
| Fine paper | 7 855.6 | 49 615.5 | 15.8 |
| Base stock for coated print paper | 4 050.2 | 4 078.4 | 99.3 |
| Hanging paper unprinted | .3 | .3 | 100.0 |
| Paperboard | | | |
| Liner board | 3 295.6 | 145 585.8 | 2.3 |
| Corrugating | 5 502.1 | 95 238.4 | 5.8 |
| Solid bleached and folding boxboard | 8 737.5 | 13 771.2 | 63.5 |
| Set-up boxboard | a | a | a |
| Other paperboard | 15 081.6 | 21 024.5 | 71.7 |
| Wet machine board | 78.1 | 2 371.1 | 3.3 |
| Building board | | | |
| Rigid insulating board | 2 221.4 | 14 570.9 | 15.3 |
| Hard board | 6 032.8 | 20 870.7 | 28.9 |
| Other building board | 68.8 | 350.1 | 19.6 |
| Asphalt shingles | 46 776.0 | 56 425.4 | 82.9 |
| Building and roofing paper | 15 017.5 | 65 348.5 | 23.0 |
| Tissue paper, except sanitary | 1 893.3 | 5 297.9 | 35.7 |
| Sanitary | 22 038.7 | 49 508.3 | 44.5 |
| Paper products | | | |
| Wallpaper, printed | 93 109.2 | 111 858.7 | 83.2 |
| Other converted papers | 36 167.8 | 54 425.1 | 67.7 |
| Total | 2 289 877.2 | 11 061 014.1 | 20.7 |

a Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.2. Value of exports of sawn lumber, laden in Ontario, 1986.

| | Exports | | |
|----------------------------------|------------------------|--------------------|---------------------------|
| | Ontario | Canada | Ontario as % of Canada |
| | — — — — \$,000 — — — — | — — — — — | |
| Hardwood | | | |
| Basswood | 693.0 | 2 760.9 | 25.1 |
| Birch | 4 803.7 | 10 693.0 | 44.9 |
| Maple | 11 742.3 | 21 151.8 | 55.5 |
| Oak | 12 279.0 | 23 312.5 | 52.7 |
| Poplar | 2 893.3 | 6 087.6 | 47.5 |
| Other hardwoods | 2 193.1 | 7 969.0 | 27.5 |
| Total | 34 604.4 | 71 974.8 | 48.1 |
| Softwood | | | |
| White spruce | 7 966.2 | 84 079.5 | 9.5 |
| Lodgepole pine | 104.9 | 19 207.5 | .6 |
| Yellow cedar | 34.6 | 102 732.9 | .0 |
| Cedar (not elsewhere specified) | 1 226.4 | 472 784.7 | .3 |
| Sitka spruce ^a | | 66 292.2 | a |
| Douglas-fir and western larch | 1 210.1 | 281 130.9 | .4 |
| Western hemlock and amabilis fir | 395.0 | 721 693.3 | .1 |
| Spruce-pine-fir | 795 250.0 | 3 050 123.8 | 26.1 |
| (not elsewhere specified) | | | |
| Ponderosa pine | 32.9 | 569.9 | 5.8 |
| Red pine | 1 920.2 | 2 096.9 | 91.6 |
| White pine | 28 834.1 | 57 745.3 | 49.9 |
| Pine (not elsewhere specified) | 816.9 | 2 656.9 | 30.8 |
| Other softwoods | 36.7 | 1 197.4 | 3.1 |
| Total | 837 828.0 | 4 862 311.2 | 17.2 |
| Total | 866 942.7 | 4 934 286.0 | 17.6 |

a Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.3. Value of veneer and plywood exports, laden in Ontario, 1986.

| | Exports | |
|--------------------------|---------------------------|-------------|
| | Ontario as % of Canada | |
| Veneer | | |
| | Ontario | Canada |
| | -- -- -- -- \$,000 | -- -- -- -- |
| Oak | 23 363.1 | 41 733.3 |
| Birch | 20 161.7 | 41 412.1 |
| Elm | 596.9 | 693.1 |
| Maple | 5 091.9 | 6 184.3 |
| Walnut | 1 255.0 | 2 684.4 |
| Other hardwood | 5 113.3 | 7 728.9 |
| Spruce | 21.2 | 489.3 |
| Other softwood | 2 155.5 | 14 225.2 |
| Total veneer | 57 758.6 | 115 450.6 |
| Plywood | | |
| Birch | 9 309.7 | 11 196.8 |
| Other hardwood | 9 041.3 | 12 226.9 |
| Other softwood | 353.7 | 54 966.6 |
| Total plywood | 18 704.7 | 78 390.3 |
| Total veneer and plywood | 76 463.3 | 193 840.9 |
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Source: Statistics Canada. Special compilation.

Table 6.4 Value of imports of major forest products, Ontario and Canada, 1986.

| Commodity | Ontario - - - - \$000 | Canada - - - - | Imports |
|-------------------------------|--------------------------|-------------------|---------------------------|
| | | | Ontario as % of Canada |
| Logs, hardwood | 20 040 | 43 583 | 46.0 |
| Logs, softwood | 2 135 | 107 414 | 2.0 |
| Logs, exotic species | 97 | 175 | 55.4 |
| Poles | 4 705 | 12 056 | 39.0 |
| Bolts and round timber | 234 | 2 724 | 8.6 |
| Lumber, hardwood | 110 324 | 198 152 | 55.7 |
| Lumber, softwood | 40 871 | 134 755 | 30.3 |
| Lumber, exotic species | 6 618 | 12 793 | 51.7 |
| Railway ties | 2 540 | 6 382 | 39.8 |
| Dimension stock | 7 298 | 11 095 | 65.8 |
| Misc. sawmill products | 705 | 4 984 | 14.1 |
| Veneer, hardwood | 13 967 | 23 703 | 58.9 |
| Veneer, softwood | 1 196 | 16 550 | 7.2 |
| Plywood, hardwood | 14 534 | 44 276 | 32.8 |
| Plywood, softwood | 14 572 | 27 386 | 53.2 |
| Plywood, wood building boards | 5 778 | 15 304 | 37.8 |
| Particleboard | 4 649 | 21 725 | 21.4 |
| Pulpwood chips | 233 | 24 025 | 1.0 |
| Pulpwood | 7 270 | 28 133 | 25.8 |
| Wood pulp | 58 399 | 128 851 | 45.3 |
| Misc. paper products | | | |
| Printing, book, misc. | 229 937 | 397 003 | 57.9 |
| Tissues | 19 114 | 39 947 | 47.8 |
| Wrapping | 19 366 | 37 558 | 51.6 |
| Paper products | 148 205 | 204 042 | 72.6 |
| Paperboards | 106 982 | 159 825 | 66.9 |
| Building boards | 26 859 | 57 911 | 46.4 |
| Total | 866 628 | 1 760 352 | 49.2 |

Source: Statistics Canada. Special compilation.

Table 6.5 Value of leading exports to the United States, 1986.

| Sector | \$ million | Percentage of total |
|--------------------------------|------------|---------------------|
| Motor vehicles | 20 607 | 44.2 |
| Automotive parts | 10 398 | 22.3 |
| Non-ferrous metals | 3 759 | 8.1 |
| Forest products | 3 332 | 7.1 |
| Industrial machinery | 2 132 | 4.6 |
| Iron and steel | 1 663 | 3.6 |
| Food and agricultural products | 1 255 | 2.7 |
| Chemicals | 1 954 | 4.2 |
| Office machinery | 931 | 2.0 |
| Fuels and refined petroleum | 614 | 1.3 |
| Total | 46 645 | |

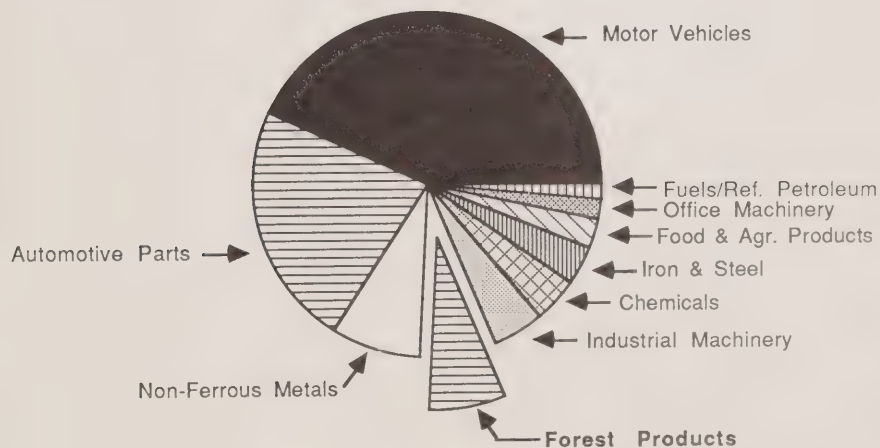


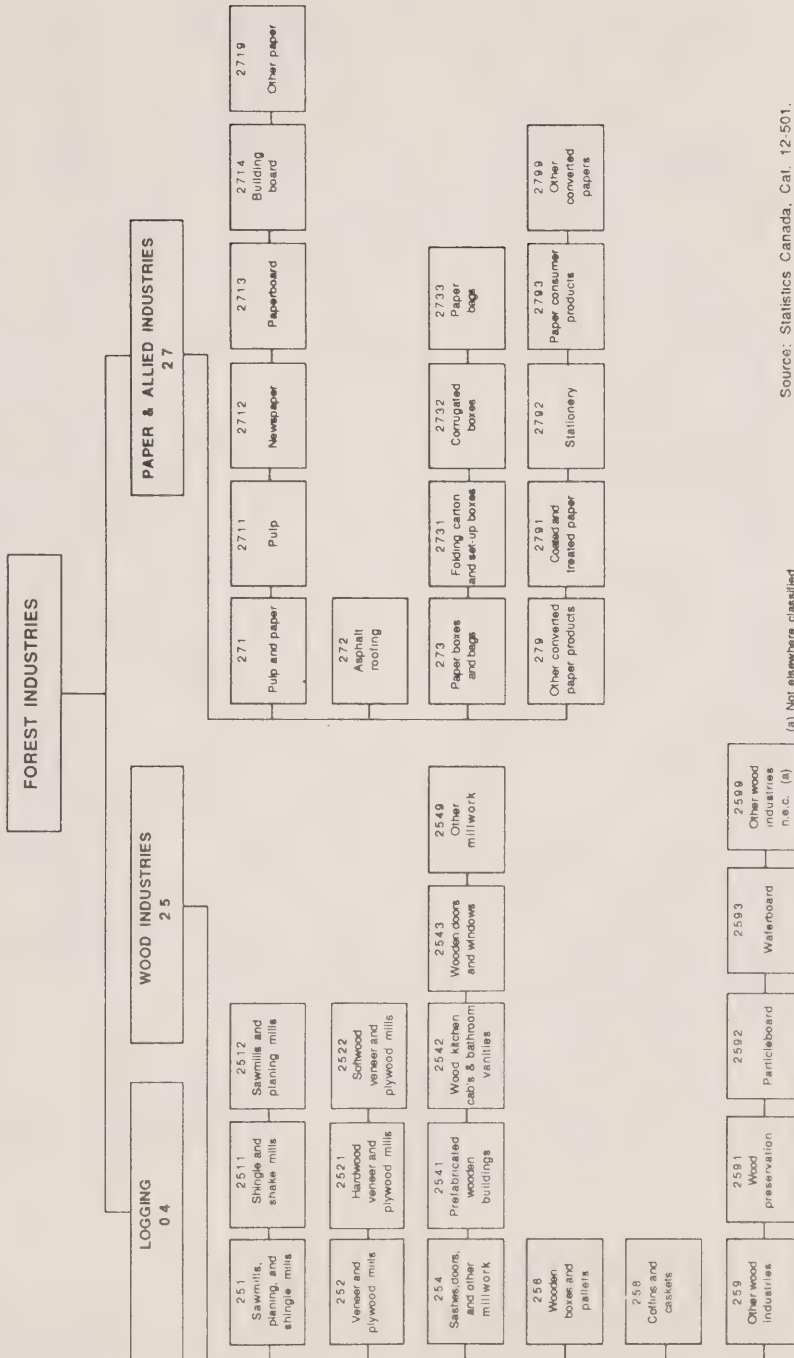
Figure 6. Value of leading exports to the United States, 1986.

Source: Statistics Canada. Catalogue No. 65-003.

SECTION VII

PRINCIPAL STATISTICS

Table 7.1 Standard industrial classification of forest industries, 1980.



(a) Not elsewhere classified

Source: Statistics Canada, Cat. 12-501.

Table 7.2. Principal statistics for the forest industry in Ontario, 1983, 1984 and 1985.

| Sector | Manufacturing activity | | | | | | | | | | Total activity |
|-----------------------------|--------------------------------|--------------------------|---------|--------------------------------|---|--|-------------|--------------------|----------------------|-----------|----------------|
| | Production and related workers | | | Cost of fuel and elec-tri-city | Cost of materials and supplies (\$'000) | Value of shipments of goods of own manu-facture added (\$'000) | Emp. types | | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | | | | Value added | Salaries and wages | Value added (\$'000) | | |
| | | | | | | | | | | (No.) | |
| 1983 | | | | | | | | | | | |
| Logging | 472 | 6 568 | 185 569 | 39 425 | 398 704 | 793 959 | 354 276 | 7 826 | 227 797 | 355 758 | |
| Wood industries | 820 | 16 518 | 34 112 | 297 880 | 848 804 | 1 572 204 | 680 533 | 19 562 | 381 158 | 698 513 | |
| Paper and allied industries | 301 | 31 175 | 64 830 | 789 180 | 2 676 283 | 5 041 628 | 1 993 124 | 41 001 | 1 110 513 | 2 010 011 | |
| Total forest industries | 1 593 | 54 261 | 112 405 | 1 272 629 | 3 923 791 | 7 407 791 | 3 027 933 | 68 389 | 1 719 468 | 3 064 282 | |
| 1984 | | | | | | | | | | | |
| Logging | 484 | 8 264 | 17 283 | 230 988 | 514 580 | 922 640 | 391 493 | 9 515 | 275 809 | 394 618 | |
| Wood industries | 838 | 17 524 | 36 538 | 335 434 | 999 172 | 1 795 703 | 761 219 | 20 840 | 432 202 | 774 791 | |
| Paper and allied industries | 311 | 31 806 | 66 009 | 848 873 | 3 044 817 | 5 851 884 | 2 453 274 | 41 690 | 1 181 223 | 2 466 296 | |
| Total forest industries | 1 633 | 57 594 | 119 830 | 1 415 295 | 4 558 569 | 8 570 227 | 3 605 986 | 72 045 | 1 889 234 | 3 635 705 | |
| 1985 | | | | | | | | | | | |
| Logging | 518 | 7 313 | 15 207 | 218 105 | 501 328 | 949 222 | 388 446 | 8 482 | 260 439 | 390 214 | |
| Wood industries | 851 | 19 777 | 42 602 | 399 224 | 1 140 014 | 2 103 431 | 902 792 | 23 207 | 507 511 | 912 627 | |
| Paper and allied industries | 317 | 31 251 | 65 896 | 893 031 | 3 186 653 | 6 036 236 | 2 468 039 | 40 990 | 1 245 332 | 2 476 824 | |
| Total forest industries | 1 686 | 58 341 | 123 705 | 1 510 360 | 4 827 995 | 9 088 889 | 3 759 277 | 72 679 | 2 013 282 | 3 779 665 | |

Sources: Statistics Canada. Catalogue No. 25-202 and 1985 Census of Manufactures, special compilation.

Table 7.3. Principal statistics for logging in Ontario, 1970-1985.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | | |
|------|------------------------|--------------------------------|--------|--------------------------------|--------|--------------------------------|-----------|-----------|---|-----------|------------------|------------------|----------------------|-----------------------------------|
| | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and elec-tri-city | | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture added | Employees | | | | |
| | | Person hours paid (\$'000) | Wages | Person hours paid (\$'000) | City | | Tri-city | Elec-city | | Cost | Opening (\$'000) | Closing (\$'000) | Value added (\$'000) | Salaries and wages added (\$'000) |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1970 | 474 | 8 246 | 19 637 | 67 433 | 5 224 | 99 272 | 53 774 | 50 563 | 218 052 | 110 454 | 9 567 | 79 745 | 111 533 | |
| 1971 | 408 | 6 900 | 16 080 | 62 730 | 4 936 | 94 459 | 50 021 | 48 731 | 206 608 | 105 966 | 8 125 | 74 761 | 106 650 | |
| 1972 | 393 | 6 598 | 15 861 | 69 594 | 6 262 | 104 970 | 48 969 | 42 971 | 234 063 | 116 776 | 7 783 | 81 892 | 117 993 | |
| 1973 | 400 | 7 677 | 17 292 | 84 257 | 8 131 | 113 766 | 43 765 | 54 523 | 254 794 | 144 185 | 8 983 | 98 699 | 145 762 | |
| 1974 | 380 | 8 225 | 18 543 | 103 433 | 11 329 | 150 366 | 54 126 | 74 848 | 326 247 | 186 730 | 9 673 | 121 454 | 188 240 | |
| 1975 | 328 | 6 616 | 14 865 | 91 265 | 9 724 | 150 098 | 76 622 | 107 316 | 302 702 | 174 117 | 8 028 | 111 940 | 176 263 | |
| 1976 | 269 | 6 307 | 12 802 | 103 363 | 11 014 | 153 503 | 99 727 | 105 041 | 353 893 | 195 277 | 7 694 | 126 888 | 196 735 | |
| 1977 | 246 | 7 035 | 14 324 | 127 140 | 12 539 | 188 298 | 105 477 | 100 040 | 435 323 | 229 325 | 8 447 | 153 309 | 231 149 | |
| 1978 | 255 | 8 099 | 16 562 | 150 301 | 15 045 | 244 909 | 104 891 | 109 817 | 504 960 | 251 259 | 9 569 | 179 797 | 253 658 | |
| 1979 | 321 | 8 096 | 16 572 | 163 647 | 17 084 | 306 121 | 120 005 | 131 212 | 588 598 | 276 600 | 9 684 | 197 276 | 278 921 | |
| 1980 | 391 | 8 015 | 16 692 | 179 478 | 24 072 | 365 267 | 129 287 | 167 444 | 668 003 | 316 822 | 9 578 | 215 652 | 319 883 | |
| 1981 | 418 | 7 374 | 14 979 | 185 016 | 30 562 | 381 431 | 159 787 | 173 041 | 717 927 | 319 189 | 9 003 | 230 052 | 327 515 | |
| 1982 | 418 | 5 633 | 11 370 | 149 796 | 33 320 | 346 243 | 169 067 | 152 847 | 678 892 | 283 108 | 7 079 | 193 796 | 287 982 | |
| 1983 | 472 | 6 568 | 13 463 | 185 569 | 39 425 | 398 704 | 128 105 | 126 550 | 793 959 | 354 276 | 7 826 | 227 797 | 355 758 | |
| 1984 | 484 | 8 264 | 17 283 | 230 988 | 44 724 | 514 580 | 125 499 | 153 656 | 922 640 | 391 493 | 9 515 | 275 809 | 394 618 | |
| 1985 | 518 | 7 313 | 15 207 | 218 105 | 45 769 | 501 328 | n/a | n/a | 949 222 | 388 446 | 8 482 | 260 439 | 390 214 | |

Sources: Statistics Canada. Catalogue No. 25-201 and 1985 Census of Manufactures, special compilation.

Table 7.4. Principal statistics for wood industries^a in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | | | Total activity | | | | |
|------------------------|---------------------------|--------------------------------|--------------------------|---------|------------------|--------------------|--------------------------------|---------|--------------------------------|-------------|-----------|--------------------|---|--|-----------|--|-----------------------------------|
| Year | Estab-lish-ments (No.) | Production and related workers | | | | | Cost of fuel and elec-tric-ity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu-facture | | Employees | | Value added -----(\$'000)----- |
| | | (No.) | Person hours paid ('000) | Wages | -----('000)----- | -----(\$'000)----- | Opening | Closing | -----(\$'000)----- | Value added | (No.) | Salaries and wages | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 1970 | 755 | 13 783 | 29 605 | 73 339 | 5 671 | 162 137 | 39 844 | 40 215 | 316 922 | 149 616 | 16 664 | 96 282 | 152 246 | | | | |
| 1971 | 733 | 13 956 | 29 883 | 79 810 | 6 772 | 178 897 | 40 807 | 35 785 | 360 390 | 169 865 | 16 835 | 105 050 | 172 794 | | | | |
| 1972 | 733 | 15 458 | 32 908 | 94 358 | 7 881 | 222 283 | 35 213 | 34 889 | 449 702 | 218 661 | 18 598 | 124 486 | 223 446 | | | | |
| 1973 | 727 | 16 874 | 35 887 | 113 637 | 10 667 | 271 284 | 34 299 | 39 596 | 580 816 | 304 481 | 20 662 | 154 051 | 309 767 | | | | |
| 1974 | 740 | 16 459 | 34 948 | 128 408 | 13 094 | 314 465 | 39 924 | 59 607 | 631 072 | 323 717 | 20 507 | 176 537 | 333 098 | | | | |
| 1975 | 726 | 15 860 | 33 285 | 138 761 | 12 975 | 340 021 | 55 248 | 69 865 | 638 441 | 300 512 | 19 284 | 185 822 | 306 896 | | | | |
| 1976 | 683 | 16 533 | 34 390 | 161 789 | 17 561 | 386 944 | 68 823 | 75 447 | 734 319 | 336 439 | 19 868 | 212 309 | 343 414 | | | | |
| 1977 | 645 | 16 737 | 35 116 | 185 845 | 22 715 | 447 267 | 75 118 | 79 731 | 870 023 | 404 653 | 20 110 | 242 641 | 410 509 | | | | |
| 1978 | 707 | 18 264 | 38 368 | 216 348 | 27 712 | 541 657 | 78 432 | 80 940 | 1 077 962 | 511 099 | 21 942 | 279 260 | 515 321 | | | | |
| 1979 | 761 | 19 283 | 40 815 | 252 044 | 31 134 | 690 807 | 82 366 | 105 905 | 1 319 647 | 620 394 | 22 902 | 320 144 | 629 169 | | | | |
| 1980 | 774 | 18 035 | 38 087 | 260 078 | 33 475 | 712 130 | 104 079 | 127 944 | 1 275 892 | 554 153 | 21 348 | 328 793 | 562 631 | | | | |
| 1981 | 774 | 17 699 | 37 190 | 287 201 | 43 705 | 791 939 | 129 113 | 142 685 | 1 436 082 | 614 011 | 20 970 | 362 998 | 619 138 | | | | |
| 1982 | 794 | 15 817 | 31 751 | 256 192 | 46 144 | 678 066 | 144 056 | 129 840 | 1 256 366 | 517 941 | 19 015 | 334 260 | 525 522 | | | | |
| 1983 | 820 | 16 518 | 34 112 | 297 880 | 54 659 | 848 804 | 130 254 | 142 063 | 1 572 204 | 680 533 | 19 562 | 381 158 | 698 513 | | | | |
| 1984 | 838 | 17 524 | 36 538 | 335 434 | 61 128 | 999 172 | 137 241 | 164 043 | 1 795 703 | 761 219 | 20 840 | 432 202 | 774 791 | | | | |
| 1985 | 851 | 19 777 | 42 602 | 399 224 | 67 135 | 1 140 014 | 175 505 | 182 014 | 2 103 431 | 902 792 | 23 207 | 507 511 | 912 627 | | | | |

^a Includes sawmills, planing mills and shingle mills, veneer and plywood mills, sash, door and other millwork plants, woodier box and pallet industries, coffin and casket industries, and other wood industries.

Source: Statistics Canada, Statistics Division, 85-204, 85-205, 85-206, 85-208, 85-210 and 1985 Census of Manufactures, special compilation.

Table 7.5. Principal statistics for sawmills and planing mills in Ontario, 1970-1985.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | | |
|------|--------------------------------|--------------------------|------------------------|---------------|--------------------------------|----------|-----------|---------|---|-------------|----------------|-----------------------------------|----------------------|--|
| | Production and related workers | | Cost of fuel and elec- | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture | Value added | Employees | | Value added (\$'000) | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | elec- city | and supplies | Opening | | Closing | | | (No.) | Salaries and wages added (\$'000) | | |
| | | | | | | (\$'000) | | | | | | | | |
| 1970 | 292 | 4 677 | 10 355 | 24 750 | 2 474 | 50 358 | 22 719 | 23 770 | 99 022 | 47 242 | 5 361 | 30 123 | 47 899 | |
| 1971 | 273 | 4 428 | 9 640 | 26 108 | 2 888 | 54 754 | 24 087 | 20 693 | 115 752 | 54 717 | 5 204 | 32 552 | 55 190 | |
| 1972 | 267 | 4 778 | 10 213 | 29 980 | 3 455 | 61 634 | 20 414 | 18 150 | 144 976 | 77 624 | 5 595 | 37 604 | 77 889 | |
| 1973 | 255 | 5 353 | 11 416 | 37 803 | 5 194 | 76 198 | 17 948 | 20 027 | 196 598 | 117 285 | 6 620 | 51 641 | 117 612 | |
| 1974 | 261 | 5 158 | 11 037 | 43 187 | 6 694 | 90 960 | 20 819 | 32 963 | 198 957 | 113 447 | 6 557 | 60 078 | 114 210 | |
| 1975 | 240 | 4 508 | 9 530 | 41 903 | 5 796 | 101 059 | 29 785 | 42 276 | 180 044 | 85 680 | 5 444 | 54 694 | 86 123 | |
| 1976 | 222 | 4 642 | 9 846 | 49 421 | 7 324 | 117 179 | 40 341 | 41 352 | 222 918 | 99 427 | 5 660 | 64 385 | 100 125 | |
| 1977 | 215 | 5 156 | 11 071 | 61 285 | 9 416 | 146 030 | 40 582 | 42 244 | 290 277 | 136 493 | 6 221 | 78 341 | 136 414 | |
| 1978 | 225 | 5 752 | 12 259 | 74 847 | 11 727 | 187 757 | 41 028 | 41 726 | 396 084 | 197 297 | 6 888 | 95 015 | 197 672 | |
| 1979 | 243 | 5 956 | 12 877 | 85 950 | 13 550 | 252 670 | 42 444 | 55 031 | 495 612 | 241 979 | 7 105 | 107 704 | 242 820 | |
| 1980 | 235 | 6 009 | 12 861 | 97 454 | 14 875 | 290 029 | 54 361 | 77 738 | 480 955 | 199 429 | 6 967 | 118 193 | 200 208 | |
| 1981 | 235 | 5 647 | 11 956 | 100 156 | 20 428 | 305 451 | 79 400 | 81 433 | 521 359 | 197 512 | 6 630 | 123 566 | 197 720 | |
| 1982 | 221 | 4 976 | 9 876 | 88 481 | 21 713 | 265 789 | 84 552 | 78 176 | 451 470 | 157 593 | 6 005 | 113 256 | 161 104 | |
| 1983 | 228 | 5 461 | 11 186 | 106 900 | 25 796 | 347 514 | 81 598 | 85 293 | 597 648 | 228 043 | 6 433 | 132 022 | 233 690 | |
| 1984 | 225 | 5 787 | 11 670 | 117 362 | 28 537 | 413 224 | 83 240 | 97 309 | 669 101 | 241 409 | 6 886 | 147 815 | 242 281 | |
| 1985 | 212 | 6 526 | 13 944 | 148 664 | 32 981 | 473 890 | 110 900 | 117 521 | 817 357 | 317 105 | 7 686 | 186 640 | 318 033 | |

Sources: Statistics Canada. Catalogue No. 35-204 and 1985 Census of Manufactures, special compilation.

Table 1. Principal statistics for the veneer and plywood industry in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | | Total activity | |
|------------------------|------------------------|---------------------------------|--------------|---|--------------------------------|------------------|------------------|---|----------------------|-----------------------------------|-----------------|----------------|--------|
| Year | Estab-lish-ments (No.) | Production and shipments weekly | | Cost of fuel and elec-tricity city supplies | Cost of materials and supplies | Inventory | | Value of Shipments of goods of own manu-facture added | Value added (\$'000) | Salaries and wages added (\$'000) | Employees (No.) | | |
| | | Person hours paid ('000) | Wages ('000) | | | Opening (\$'000) | Closing (\$'000) | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1970 | 29 | 1 978 | 4 031 | 9 505 | 857 | 18 446 | 5 890 | 5 200 | 35 075 | 15 081 | 2 283 | 11 871 | 15 482 |
| 1971 | 27 | 1 997 | 4 063 | 10 220 | 917 | 17 043 | 5 217 | 3 179 | 37 382 | 17 385 | 2 262 | 12 453 | 17 501 |
| 1972 | 25 | 2 166 | 4 453 | 12 260 | 1 110 | 18 655 | 3 253 | 2 586 | 43 715 | 23 284 | 2 432 | 14 848 | 23 354 |
| 1973 | 24 | 2 178 | 4 515 | 13 622 | 1 254 | 23 000 | 2 586 | 2 414 | 56 155 | 31 728 | 2 434 | 16 229 | 31 588 |
| 1974 | 22 | 1 921 | 3 945 | 13 841 | 1 220 | 22 779 | 2 149 | 3 319 | 52 052 | 29 224 | 2 189 | 16 820 | 29 331 |
| 1975 | 21 | 1 838 | 3 696 | 14 780 | 1 326 | 23 949 | 2 922 | 3 897 | 46 874 | 22 575 | 2 078 | 17 986 | 22 656 |
| 1976 | 20 | 1 796 | 3 441 | 16 174 | 1 454 | 25 088 | 3 976 | 3 676 | 50 814 | 23 973 | 2 039 | 19 583 | 24 542 |
| 1977 | 21 | 1 715 | 3 261 | 17 310 | 1 740 | 30 511 | 3 942 | 4 253 | 59 237 | 27 298 | 1 965 | 21 245 | 26 820 |
| 1978 | 22 | 2 020 | 4 035 | 22 912 | 2 140 | 39 126 | 4 285 | 3 774 | 88 946 | 47 169 | 2 317 | 28 108 | 46 554 |
| 1979 | 23 | 2 160 | 4 427 | 26 434 | 2 642 | 50 885 | 4 342 | 5 136 | 110 975 | 58 243 | 2 470 | 32 566 | 60 903 |
| 1980 | 24 | 2 146 | 4 395 | 28 915 | 3 025 | 59 572 | 5 138 | 7 499 | 112 240 | 52 005 | 2 443 | 35 532 | 54 380 |
| 1981 | 18 | 1 950 | 4 081 | 30 151 | 3 870 | 66 825 | 7 477 | 8 652 | 120 226 | 50 706 | 2 231 | 36 585 | 50 017 |
| 1982 | 21 | 1 753 | 3 326 | 25 501 | 3 930 | 52 495 | 8 425 | 7 206 | 98 834 | 41 190 | 2 016 | 32 336 | 41 104 |
| 1983 | 23 | 1 782 | 3 621 | 30 432 | 4 786 | 59 966 | 7 139 | 8 546 | 125 854 | 62 510 | 2 046 | 38 365 | 65 846 |
| 1984 | 24 | 1 889 | 3 938 | 35 870 | 4 845 | 69 234 | 8 546 | 11 894 | 138 718 | 67 987 | 2 176 | 45 694 | 72 022 |
| 1985 | 19 | 1 585 | 3 179 | 30 867 | 5 372 | 59 341 | 11 705 | 13 099 | 118 954 | 55 636 | 1 864 | 39 299 | 57 216 |

Sources: Statistics Canada, Catalogue No. 35-206 and 1985 Census of Manufactures, special compilation.

Table 7.7. Principal statistics for sash, door and other millwork industries in Ontario, 1970-1985.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | |
|------|---------------------------|-----------------------------------|-----------------------------|--------------------------------------|---------|--------------------------------------|--------|--|---------|--|----------------|---------|--------------------------------------|
| | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and elec-tri-city | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture added -----(\$'000)----- | Employees | | Value added -----(\$'000)----- |
| | | Person hours paid ('000) | Wages -----(\$'000)----- | Opening -----(\$'000)----- | Closing | Value added | (No.) | Salaries and wages -----(\$'000)----- | | | | | |
| | | | | | | | | | | | | | |
| 1970 | 261 | 3 393 | 7 397 | 1 176 | 54 004 | 6 996 | 7 002 | 100 973 | 45 799 | 4 490 | 27 778 | 47 265 | |
| 1971 | 257 | 3 838 | 8 372 | 1 312 | 66 229 | 7 085 | 7 200 | 121 476 | 48 049 | 4 911 | 32 564 | 55 971 | |
| 1972 | 273 | 4 716 | 10 126 | 1 482 | 94 371 | 6 934 | 9 539 | 161 504 | 68 257 | 5 960 | 42 134 | 72 418 | |
| 1973 | 278 | 5 138 | 11 094 | 1 932 | 116 063 | 9 260 | 11 673 | 208 578 | 92 996 | 6 582 | 51 375 | 97 804 | |
| 1974 | 279 | 5 165 | 11 178 | 41 324 | 129 719 | 11 594 | 16 547 | 237 505 | 110 455 | 6 714 | 60 672 | 118 376 | |
| 1975 | 283 | 5 114 | 10 861 | 45 672 | 136 249 | 15 384 | 15 120 | 258 851 | 119 911 | 6 540 | 66 021 | 124 894 | |
| 1976 | 282 | 5 935 | 12 514 | 57 837 | 162 191 | 15 881 | 18 671 | 297 071 | 134 517 | 7 233 | 78 844 | 139 934 | |
| 1977 | 266 | 5 513 | 11 706 | 57 759 | 160 572 | 18 950 | 21 815 | 292 993 | 131 440 | 6 819 | 80 045 | 137 685 | |
| 1978 | 303 | 5 786 | 12 189 | 63 740 | 4 314 | 178 215 | 21 610 | 328 703 | 146 669 | 7 169 | 87 361 | 150 713 | |
| 1979 | 316 | 6 153 | 12 987 | 73 444 | 4 489 | 210 619 | 21 687 | 385 936 | 174 308 | 7 460 | 98 286 | 178 123 | |
| 1980 | 322 | 5 456 | 11 500 | 70 449 | 4 885 | 188 733 | 25 079 | 362 780 | 167 877 | 6 668 | 94 941 | 178 889 | |
| 1981 | 322 | 5 870 | 12 321 | 84 993 | 6 057 | 220 011 | 23 172 | 428 796 | 201 102 | 7 076 | 111 843 | 212 595 | |
| 1982 | 343 | 5 335 | 11 101 | 81 659 | 7 013 | 197 830 | 30 441 | 395 613 | 187 948 | 6 481 | 109 655 | 191 269 | |
| 1983 | 375 | 5 839 | 12 318 | 98 421 | 7 638 | 253 207 | 26 876 | 515 080 | 260 007 | 6 778 | 133 643 | 266 261 | |
| 1984 | 381 | 6 074 | 12 873 | 108 291 | 8 659 | 211 391 | 30 558 | 576 147 | 239 230 | 7 403 | 146 916 | 295 558 | |
| 1985 | 407 | 7 746 | 17 054 | 143 216 | 10 082 | 368 587 | 34 143 | 744 025 | 364 379 | 9 140 | 186 464 | 369 278 | |

Sources: Statistics Canada, Catalogue No. 35-205 and 1985 Census of Manufactures, special compilation.

Table 7.8. Principal statistics for the wooden box and pallet industry in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | | | | Total activity | |
|------------------------|---------------------------|---------------------------------|--------------|----------------------------------|--------------|--------------------------------|------------------|-----------------------------------|---------|--|-------------|-----------|--------|----------------------|--|
| Year | Estab-lish-ments (No.) | Production and related services | | Cost of fuel and elec- tric- ity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture | Value added | Employees | | Value added (\$'000) | |
| | | Person hours paid ('000) | Wages ('000) | Person hours paid ('000) | Wages ('000) | Opening (\$'000) | Closing (\$'000) | Salaries and wages added (\$'000) | (No.) | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1970 | 75 | 1 512 | 3 161 | 8 305 | 444 | 16 032 | 983 | 1 176 | 35 074 | 18 791 | 1 838 | 11 164 | 18 749 | | |
| 1971 | 80 | 1 538 | 3 215 | 8 597 | 545 | 16 464 | 1 178 | 1 248 | 35 393 | 18 454 | 1 856 | 11 437 | 18 542 | | |
| 1972 | 75 | 1 572 | 3 299 | 8 785 | 539 | 17 853 | 1 165 | 1 006 | 37 512 | 18 961 | 1 896 | 11 627 | 18 952 | | |
| 1973 | 81 | 1 676 | 3 525 | 10 331 | 641 | 22 197 | 896 | 1 421 | 45 829 | 23 515 | 2 002 | 13 645 | 23 433 | | |
| 1974 | 89 | 1 841 | 3 915 | 13 182 | 904 | 35 343 | 1 503 | 1 851 | 64 955 | 29 056 | 2 221 | 17 305 | 28 920 | | |
| 1975 | 90 | 1 944 | 4 124 | 16 010 | 954 | 36 634 | 1 837 | 1 863 | 70 530 | 32 968 | 2 338 | 21 899 | 32 855 | | |
| 1976 | 86 | 1 855 | 3 929 | 16 281 | 1 124 | 36 635 | 1 916 | 2 070 | 74 264 | 36 659 | 2 240 | 21 736 | 36 448 | | |
| 1977 | 77 | 1 916 | 4 044 | 21 293 | 1 393 | 46 866 | 2 002 | 2 280 | 99 957 | 51 976 | 2 284 | 28 659 | 51 840 | | |
| 1978 | 77 | 1 878 | 3 947 | 20 006 | 1 478 | 53 651 | 2 287 | 3 286 | 98 567 | 44 437 | 2 312 | 26 311 | 44 436 | | |
| 1979 | 88 | 2 146 | 4 502 | 27 865 | 1 572 | 70 620 | 3 321 | 3 263 | 126 354 | 54 104 | 2 570 | 34 497 | 54 230 | | |
| 1980 | 89 | 1 846 | 3 837 | 22 782 | 1 531 | 64 733 | 3 396 | 3 391 | 120 392 | 54 122 | 2 250 | 30 336 | 53 939 | | |
| 1981 | 89 | 1 688 | 3 522 | 26 336 | 1 740 | 72 780 | 3 305 | 3 168 | 135 109 | 60 452 | 2 079 | 35 374 | 60 372 | | |
| 1982 | 102 | 1 637 | 3 426 | 24 435 | 2 526 | 60 336 | 3 449 | 3 602 | 118 734 | 56 024 | 2 013 | 33 079 | 55 927 | | |
| 1983 | 91 | 1 187 | 2 466 | 16 755 | 1 860 | 47 341 | 3 335 | 3 326 | 85 078 | 35 867 | 1 374 | 21 029 | 36 050 | | |
| 1984 | 96 | 1 256 | 2 612 | 18 713 | 2 202 | 59 199 | 3 370 | 3 797 | 105 158 | 44 183 | 1 445 | 23 293 | 44 169 | | |
| 1985 | 90 | 1 346 | 2 698 | 20 354 | 2 392 | 65 147 | 4 431 | 5 525 | 112 934 | 46 485 | 1 552 | 26 050 | 46 433 | | |

Sources: Statistics Canada. Catalogue Nos. 75-209 and 75-208 and 1985 Census of Manufactures, special compilation.

Table 7.9. Principal statistics for the coffin and casket industry in Ontario, 1970-1985.

| Year | Manufacturing activity | | | | | | | | | | Total activity | |
|------|--------------------------------|--------------------------|--------------|--------------------------------|-----------|---|------------------|------------------|----------------------|-----------------|--|----------------------|
| | Production and related workers | | | | | Cost of fuel and electricity and materials and supplies | | | | | Value of shipments of goods of own manufacture | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages ('000) | Cost of materials and supplies | Inventory | | Opening (\$'000) | Closing (\$'000) | Value added (\$'000) | Employees (No.) | Salaries and wages added (\$'000) | Value added (\$'000) |
| | | | | | Opening | Closing | | | | | | |
| 1970 | 9 | 598 | 1 353 | 1 938 | 575 | 505 | 575 | 505 | 4 846 | 393 | 2 148 | 2 809 |
| 1971 | 9 | 602 | 1 479 | 1 789 | 705 | 749 | 705 | 749 | 4 768 | 371 | 2 280 | 3 034 |
| 1972 | 9 | 529 | 1 550 | 2 043 | 749 | 606 | 749 | 606 | 4 953 | 343 | 2 475 | 2 785 |
| 1973 | 9 | 477 | 1 351 | 2 219 | 660 | 739 | 660 | 739 | 5 044 | 311 | 2 182 | 2 795 |
| 1974 | 9 | 472 | 1 419 | 2 286 | 739 | 601 | 739 | 601 | 5 359 | 321 | 2 242 | 2 857 |
| 1975 | 9 | 451 | 1 595 | 2 275 | 504 | 725 | 504 | 725 | 5 382 | 264 | 2 219 | 3 311 |
| 1976 | 8 | 445 | 1 713 | 1 859 | 692 | 365 | 692 | 365 | 5 339 | 252 | 2 317 | 3 004 |
| 1977 | 7 | 388 | 1 606 | 1 999 | 365 | 321 | 365 | 321 | 5 145 | 220 | 2 108 | 3 007 |
| 1978 | 7 | 374 | 1 764 | 2 631 | 321 | 571 | 321 | 571 | 6 027 | 214 | 2 689 | 3 487 |
| 1979 | 7 | 330 | 1 718 | 2 687 | 615 | 774 | 615 | 774 | 6 071 | 190 | 2 296 | 3 390 |
| 1980 | 8 | 320 | 1 783 | 3 012 | 596 | 779 | 596 | 779 | 6 372 | 185 | 2 370 | 3 426 |
| 1981 | 8 | 321 | 2 159 | 3 471 | 779 | 1 137 | 779 | 1 137 | 6 986 | 189 | 2 843 | 3 726 |
| 1982 | 8 | 259 | 1 821 | 2 787 | 644 | 230 | 644 | 230 | 6 796 | 155 | 2 402 | 3 452 |
| 1983 | 6 | 274 | 2 118 | 3 159 | 225 | 440 | 225 | 440 | 6 722 | 167 | 2 762 | 3 620 |
| 1984 | 6 | 256 | 2 138 | 3 125 | a | a | a | a | 7 387 | 148 | 2 811 | 4 113 |
| 1985 | 5 | 343 | 2 732 | 4 312 | a | a | a | a | 8 861 | 173 | 3 416 | 4 411 |

a Confidential

Sources: Statistics Canada. Catalogue Nos. 35-210, 35-208 and 1985 Census of Manufactures, special compilation.

Principal statistics for other wood industries in Ontario, 1970-1985.

| Year | Estab-lish-ments (No.) | Manufacturing activity | | | | | | | | | | Total activity | | |
|------|---------------------------|--------------------------------|---------------------|------------------------|--------|---------|--------------------------------|---------|-----------|----------|---|----------------|-----------------------------------|----------------------|
| | | Production and related workers | | | | | Manufacturing activity | | | | | Total activity | | |
| | | Person | | Cost of fuel and elec- | | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture added | Employees | | Value added (\$'000) |
| | | (No.) | hours paid (\$'000) | Wages | city | tricity | Opening | Closing | (\$'000) | (\$'000) | | (No.) | Salaries and wages added (\$'000) | |
| 1970 | 78 | 1 421 | 3 011 | 7 656 | 503 | 14 932 | 2 681 | 2 562 | 30 294 | 14 740 | 1 645 | 9 445 | 14 801 | |
| 1971 | 77 | 1 495 | 3 159 | 8 746 | 892 | 17 925 | 2 535 | 2 716 | 35 892 | 17 256 | 1 742 | 10 726 | 17 396 | |
| 1972 | 75 | 1 591 | 3 422 | 10 044 | 1 066 | 21 998 | 2 698 | 3 002 | 44 990 | 22 231 | 1 876 | 12 427 | 22 340 | |
| 1973 | 70 | 1 820 | 3 805 | 12 057 | 1 325 | 25 625 | 2 949 | 3 322 | 56 782 | 30 206 | 2 162 | 15 366 | 30 416 | |
| 1974 | 69 | 1 750 | 3 568 | 12 974 | 1 648 | 27 616 | 3 120 | 4 326 | 61 281 | 33 224 | 2 045 | 16 252 | 33 858 | |
| 1975 | 73 | 1 900 | 3 877 | 16 347 | 2 153 | 34 824 | 4 816 | 5 984 | 67 708 | 31 899 | 2 232 | 20 112 | 32 651 | |
| 1976 | 65 | 2 097 | 4 224 | 20 396 | 4 360 | 43 991 | 6 017 | 9 313 | 83 912 | 38 858 | 2 448 | 25 473 | 39 360 | |
| 1977 | 59 | 2 253 | 4 646 | 26 596 | 6 227 | 61 288 | 9 277 | 8 818 | 122 412 | 54 437 | 2 601 | 32 243 | 54 742 | |
| 1978 | 74 | 2 682 | 5 564 | 33 078 | 7 925 | 80 276 | 8 901 | 9 479 | 159 633 | 72 010 | 3 046 | 39 921 | 72 457 | |
| 1979 | 84 | 2 712 | 5 692 | 36 635 | 8 766 | 103 328 | 9 957 | 15 683 | 194 698 | 88 329 | 3 107 | 44 796 | 89 703 | |
| 1980 | 100 | 2 425 | 5 175 | 38 698 | 9 060 | 106 057 | 15 510 | 14 755 | 193 153 | 77 282 | 2 835 | 47 424 | 79 789 | |
| 1981 | 102 | 2 330 | 4 990 | 43 406 | 11 484 | 123 401 | 14 980 | 17 742 | 223 615 | 91 492 | 2 765 | 52 789 | 94 708 | |
| 1982 | 99 | 1 981 | 3 764 | 34 295 | 10 837 | 98 828 | 16 545 | 13 007 | 184 918 | 71 715 | 2 345 | 43 532 | 72 666 | |
| 1983 | 97 | 2 103 | 4 244 | 43 253 | 14 441 | 137 618 | 11 081 | 11 809 | 241 811 | 90 483 | 2 464 | 53 337 | 93 045 | |
| 1984 | 106 | 2 385 | 5 181 | 53 060 | 16 738 | 172 998 | 11 527 | 16 347 | 299 192 | 114 277 | 2 782 | 65 673 | 116 647 | |
| 1985 | 118 | 2 418 | 5 386 | 53 393 | 16 161 | 168 738 | 13 624 | 11 967 | 301 302 | 114 744 | 2 794 | 65 643 | 117 256 | |

Sources: Statistics Canada. Catalogue No. 35-208 and 1985 Census of Manufactures, special compilation.

Table 7.11. Principal statistics for paper and allied industries^a in Ontario, 1970-1985.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | | |
|------|--------------------------------|--------------------------|--------|----------------------------------|---------|----------------------------------|--------------------------------|-----------------------|-----------|--|----------------|--|-----------|---------------------------|
| | Production and related workers | | | Cost of fuel and elec- tric- ity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture added | | Employees | | Value added (\$'000)----- |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | Person hours paid ('000) | Wages | Cost of fuel and elec- tric- ity | Cost of materials and supplies | Opening (\$'000)----- | Closing | Value added | (No.) | Salaries and wages added (\$'000)----- | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1970 | 283 | 33 547 | 72 136 | 240 472 | 58 671 | 672 275 | 74 217 | 84 048 | 1 313 911 | 592 793 | 44 894 | 346 429 | 614 506 | |
| 1971 | 289 | 32 810 | 69 810 | 249 840 | 64 119 | 697 061 | 83 717 | 85 066 | 1 367 409 | 607 578 | 43 867 | 359 155 | 627 387 | |
| 1972 | 300 | 33 768 | 72 013 | 279 206 | 69 169 | 753 533 | 85 576 | 88 694 | 1 484 008 | 664 425 | 44 580 | 395 818 | 681 961 | |
| 1973 | 289 | 34 795 | 73 502 | 313 220 | 75 145 | 861 170 | 89 232 | 81 688 | 1 748 335 | 805 719 | 45 391 | 436 484 | 822 197 | |
| 1974 | 294 | 36 362 | 76 156 | 366 745 | 93 673 | 1 175 923 | 82 491 | 121 487 | 2 429 739 | 1 199 139 | 47 404 | 512 825 | 1 221 616 | |
| 1975 | 302 | 33 965 | 62 456 | 336 145 | 93 261 | 1 064 969 | 121 277 | 111 584 | 2 126 441 | 958 517 | 45 178 | 497 083 | 999 360 | |
| 1976 | 301 | 34 505 | 73 464 | 434 420 | 145 410 | 1 291 516 | 112 726 | 140 903 | 2 459 739 | 1 050 989 | 45 645 | 612 501 | 1 082 376 | |
| 1977 | 287 | 33 233 | 68 858 | 492 123 | 197 186 | 1 440 021 | 135 189 | 138 796 | 2 826 617 | 1 193 017 | 43 488 | 681 113 | 1 207 415 | |
| 1978 | 319 | 34 819 | 71 961 | 541 123 | 228 829 | 1 616 288 | 136 907 | 143 781 | 3 145 697 | 1 307 455 | 45 209 | 747 394 | 1 317 821 | |
| 1979 | 334 | 35 811 | 74 456 | 600 095 | 252 576 | 2 007 803 | 145 722 | 177 298 | 3 872 205 | 1 643 403 | 46 172 | 827 101 | 1 661 591 | |
| 1980 | 349 | 37 084 | 75 711 | 664 390 | 279 530 | 2 368 722 | 177 790 | 200 523 | 4 598 977 | 1 973 456 | 47 861 | 926 779 | 1 992 117 | |
| 1981 | 342 | 36 277 | 75 200 | 749 579 | 324 780 | 2 702 821 | 201 429 | 220 790 | 5 129 828 | 2 121 589 | 47 381 | 1 044 810 | 2 136 084 | |
| 1982 | 347 | 33 013 | 67 728 | 743 848 | 351 385 | 2 596 915 | 217 100 | 239 596 | 4 841 076 | 1 915 271 | 43 917 | 1 078 919 | 1 939 371 | |
| 1983 | 301 | 31 175 | 64 830 | 789 180 | 381 789 | 2 676 283 | 200 899 | 209 140 | 5 041 628 | 1 993 124 | 41 001 | 1 110 513 | 2 010 011 | |
| 1984 | 311 | 31 806 | 66 009 | 848 873 | 408 817 | 3 044 817 | 219 185 | 292 206 | 5 851 884 | 2 453 274 | 41 690 | 1 181 223 | 2 466 296 | |
| 1985 | 317 | 31 251 | 65 896 | 893 031 | 404 954 | 3 186 653 | 272 116 | 295 526 | 6 036 236 | 2 468 039 | 40 990 | 1 245 332 | 2 476 824 | |

^a Includes pulp and paper mills, asphalt roofing manufacturers, paper box and bag manufacturers, and other converted paper products.

Sources: Statistics Canada, Catalogue Nos. 36-204, 36-205, 36-206, 36-207, 36-213, 36-214, 36-215, 36-216 and 1985 Census of Manufactures, special compilation.

Table 1.1. Principal statistics for pulp and paper industries in Ontario, 1970-1985.

| Year | Estab-lish-ments (No.) | Manufacturing activity | | | | | | | | | | Total activity | | | |
|------|---------------------------|--------------------------------|--------|--------------------------|---------|--------------------------------|------------------|------------------|------------------|--------------------------------|--------|---|-------------|--------------------|--|
| | | Production and related markets | | | | Cost of fuel and elec-tric-ity | | | | Cost of materials and supplies | | Value of shipments of goods of own manu-facture | Value added | Employees (No.) | Salaries and wages added -----(\$'000)----- |
| | | Person hours paid ('000) | Wages | Person hours paid ('000) | Wages | Opening (\$'000) | Closing (\$'000) | Opening (\$'000) | Closing (\$'000) | | | | | | |
| | | | | | | | | | | | | | | | |
| 1970 | 36 | 17 832 | 38 512 | 143 157 | 53 295 | 341 995 | 23 555 | 29 371 | 732 424 | 342 949 | 22 201 | 188 189 | 346 406 | | |
| 1971 | 37 | 17 132 | 35 946 | 144 593 | 58 158 | 339 829 | 29 315 | 29 387 | 728 289 | 330 373 | 21 305 | 190 348 | 331 835 | | |
| 1972 | 37 | 16 970 | 36 224 | 157 759 | 61 944 | 358 824 | 29 387 | 27 763 | 778 067 | 355 675 | 21 044 | 206 929 | 356 799 | | |
| 1973 | 37 | 17 326 | 36 562 | 174 969 | 67 593 | 406 916 | 27 788 | 20 574 | 932 061 | 450 338 | 21 271 | 227 160 | 451 839 | | |
| 1974 | 37 | 17 753 | 37 848 | 203 864 | 84 395 | 556 363 | 20 062 | 30 814 | 1 347 587 | 717 581 | 21 909 | 265 286 | 721 076 | | |
| 1975 | 37 | 16 417 | 26 570 | 164 662 | 82 775 | 440 049 | 30 866 | 26 265 | 1 031 209 | 503 784 | 20 912 | 233 645 | 517 889 | | |
| 1976 | 37 | 17 302 | 37 757 | 237 708 | 131 311 | 579 398 | 26 131 | 40 663 | 1 236 886 | 540 709 | 21 693 | 315 867 | 548 492 | | |
| 1977 | 37 | 17 329 | 35 774 | 295 510 | 181 396 | 740 843 | 40 719 | 41 700 | 1 603 037 | 681 778 | 21 604 | 383 016 | 688 718 | | |
| 1978 | 37 | 17 797 | 36 790 | 320 308 | 210 538 | 828 876 | 40 955 | 42 412 | 1 780 255 | 742 298 | 22 177 | 419 289 | 744 923 | | |
| 1979 | 37 | 17 881 | 37 413 | 348 539 | 231 900 | 1 029 954 | 42 475 | 48 349 | 2 233 098 | 977 118 | 22 539 | 461 813 | 981 529 | | |
| 1980 | 36 | 18 328 | 37 410 | 382 238 | 254 886 | 1 159 781 | 48 322 | 55 843 | 2 614 443 | 1 207 296 | 23 105 | 510 279 | 1 215 084 | | |
| 1981 | 36 | 17 879 | 37 407 | 426 891 | 294 149 | 1 290 917 | 54 231 | 65 737 | 2 847 780 | 1 274 219 | 22 776 | 570 463 | 1 275 857 | | |
| 1982 | 36 | 16 811 | 34 649 | 439 886 | 317 107 | 1 222 136 | 64 898 | 82 775 | 2 593 734 | 1 072 368 | 21 826 | 610 703 | 1 074 068 | | |
| 1983 | 34 | 16 148 | 34 090 | 476 606 | 349 823 | 1 322 017 | 83 833 | 74 861 | 2 818 209 | 1 137 397 | 20 708 | 644 317 | 1 134 029 | | |
| 1984 | 34 | 15 867 | 33 666 | 497 361 | 372 224 | 1 514 710 | 74 049 | 109 981 | 3 362 436 | 1 511 436 | 20 447 | 672 579 | 1 509 372 | | |
| 1985 | 35 | 15 272 | 32 804 | 514 054 | 365 282 | 1 553 015 | 98 615 | 96 622 | 3 441 868 | 1 458 577 | 19 831 | 701 649 | 1 450 985 | | |

Sources: Statistics Canada, Catalogue No. 36-204 and 1985 Census of Manufactures, special compilation.

Table 7.13. Principal statistics for asphalt roofing manufacturers in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | | | | Total activity | |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|--|-----------------------|--|---------------------|-----------|---|--|----------------|-----------|--------|----------------------------|--|
| Year | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and elec- tri- city | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture added | Value added | Employees | | Value added (\$'000) | |
| | | (No.) | Person hours paid ('000) | Wages | elec- tri- city | Cost of materials and supplies | Opening (\$'000) | Closing | Salaries and wages added (\$'000) | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1970 | 4 | 162 | 392 | 1 212 | 222 | 5 573 | 416 | 511 | 10 979 | 5 278 | 195 | 1 451 | 5 324 | | |
| 1971 | 4 | 194 | 444 | 1 489 | 292 | 7 613 | 511 | 557 | 15 119 | 7 259 | 229 | 1 767 | 7 426 | | |
| 1972 | 4 | 227 | 522 | 2 140 | 342 | 8 348 | 824 | 844 | 17 616 | 8 947 | 268 | 2 460 | 9 137 | | |
| 1973 | 4 | 261 | 572 | 2 313 | 459 | 9 847 | 844 | 497 | 19 330 | 8 677 | 302 | 2 661 | 9 128 | | |
| 1974 | 4 | 270 | 582 | 2 515 | 544 | 10 817 | 522 | 1 189 | 22 275 | 11 580 | 318 | 2 954 | 12 209 | | |
| 1975 | 4 | 289 | 626 | 3 119 | 799 | 15 855 | 1 163 | 920 | 28 860 | 11 963 | 334 | 3 751 | 12 721 | | |
| 1976 | 4 | 296 | 645 | 3 590 | 1 053 | 22 125 | 841 | 2 207 | 37 311 | 15 499 | 371 | 4 593 | 15 869 | | |
| 1977 | 4 | 304 | 661 | 4 075 | 1 392 | 26 425 | 2 207 | 3 843 | 44 185 | 18 003 | 397 | 5 289 | 18 195 | | |
| 1978 | 5 | 306 | 624 | 4 036 | 1 073 | 31 166 | 3 694 | 1 828 | 53 478 | 19 372 | 396 | 5 526 | 19 476 | | |
| 1979 | 5 | 345 | 692 | 4 847 | 1 527 | 43 006 | 1 859 | 5 266 | 66 559 | 25 433 | 439 | 6 695 | 26 264 | | |
| 1980 | 5 | 321 | 687 | 5 660 | 1 622 | 55 186 | 5 666 | 6 404 | 88 341 | 32 271 | 427 | 7 659 | 32 741 | | |
| 1981 | 5 | 353 | 685 | 6 093 | 1 838 | 64 144 | 6 768 | 3 194 | 102 732 | 33 176 | 458 | 8 486 | 33 943 | | |
| 1982 | 5 | 333 | 667 | 6 250 | 2 222 | 61 236 | 3 223 | 4 401 | 96 024 | 33 743 | 452 | 9 066 | 35 455 | | |
| 1983 | 5 | 327 | 670 | 6 592 | 2 525 | 83 598 | 4 652 | 7 606 | 111 652 | 28 483 | 385 | 7 965 | 28 635 | | |
| 1984 | 6 | 459 | 922 | 9 068 | 4 292 | 94 746 | 8 425 | 8 867 | 144 432 | 45 835 | 537 | 10 969 | 47 242 | | |
| 1985 | 7 | 467 | 986 | 10 469 | 4 826 | 107 835 | 10 379 | 11 984 | 107 245 | 59 187 | 564 | 13 243 | 61 291 | | |

Sources: Statistics Canada, Catalogue Nos. 36-205, 36-215 and 1985 Census of Manufactures, special compilation.

Table 1.14. Principal statistics for paper, box and bag manufacturers in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | Total activity | | |
|------------------------|---------------------------|-----------------------------------|-----------------------------|---|-------------------------------|--|--|--------|---|----------------|----------------|---------|--------------------------------------|
| Year | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel elec- tric- ity | | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu- facture | Value added | Employees | | Value added -----(\$'000)----- |
| | | Person hours paid ('000) | Wages -----(\$'000)----- | Opening -----(\$'000)----- | Closing -----(\$'000)----- | | Salaries and wages -----(\$'000)----- | (No.) | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1970 | 131 | 8 471 | 18 222 | 53 303 | 2 804 | 180 242 | 21 121 | 22 536 | 307 386 | 125 751 | 11 628 | 80 945 | 125 777 |
| 1971 | 129 | 8 549 | 18 213 | 57 902 | 2 986 | 195 894 | 22 453 | 24 189 | 334 373 | 137 229 | 11 612 | 86 836 | 137 564 |
| 1972 | 133 | 9 077 | 19 541 | 66 758 | 3 598 | 214 739 | 24 325 | 26 423 | 364 261 | 148 019 | 12 132 | 97 515 | 148 901 |
| 1973 | 131 | 9 536 | 20 334 | 75 721 | 3 690 | 249 834 | 26 606 | 25 502 | 428 187 | 174 805 | 12 653 | 109 586 | 176 350 |
| 1974 | 138 | 10 057 | 20 702 | 89 082 | 4 484 | 341 870 | 25 678 | 39 184 | 570 877 | 238 029 | 13 236 | 129 431 | 241 765 |
| 1975 | 145 | 9 346 | 19 114 | 91 868 | 5 186 | 344 774 | 38 128 | 34 018 | 575 004 | 220 933 | 12 370 | 133 996 | 227 836 |
| 1976 | 146 | 9 226 | 19 299 | 108 747 | 7 041 | 388 695 | 34 447 | 40 271 | 652 092 | 262 179 | 12 244 | 154 343 | 265 314 |
| 1977 | 140 | 8 827 | 18 490 | 113 361 | 7 721 | 386 710 | 38 231 | 37 153 | 649 811 | 254 303 | 11 671 | 161 478 | 256 691 |
| 1978 | 153 | 9 303 | 19 368 | 124 123 | 8 969 | 431 365 | 36 297 | 40 900 | 724 944 | 289 250 | 12 163 | 174 463 | 290 744 |
| 1979 | 164 | 10 041 | 20 938 | 142 291 | 10 671 | 546 331 | 41 984 | 51 760 | 877 731 | 330 505 | 12 844 | 196 343 | 334 390 |
| 1980 | 172 | 10 462 | 21 385 | 157 638 | 12 483 | 617 940 | 51 613 | 61 378 | 996 106 | 375 445 | 13 350 | 219 893 | 378 310 |
| 1981 | 168 | 9 980 | 20 584 | 176 658 | 15 583 | 730 796 | 58 245 | 62 691 | 1 153 786 | 411 852 | 12 999 | 249 170 | 415 172 |
| 1982 | 171 | 8 730 | 17 610 | 162 677 | 16 194 | 687 158 | 57 943 | 61 636 | 1 121 204 | 421 545 | 11 441 | 236 530 | 430 262 |
| 1983 | 130 | 7 521 | 15 352 | 159 132 | 13 858 | 618 024 | 42 345 | 48 995 | 997 137 | 371 904 | 9 608 | 219 929 | 369 939 |
| 1984 | 134 | 7 801 | 16 134 | 178 179 | 15 040 | 718 984 | 47 470 | 57 068 | 1 135 582 | 411 157 | 9 995 | 243 398 | 409 428 |
| 1985 | 133 | 7 878 | 16 278 | 192 985 | 16 862 | 764 261 | 57 867 | 64 090 | 1 206 406 | 431 508 | 10 042 | 264 051 | 430 694 |

Source: Statistics Canada, Catalogue 996, 30-267, 36-213, 36-214, 36-216 and 1985 Census of Manufactures, special compilation.

Table 7.15. Principal statistics for other converted paper products in Ontario, 1970-1985.

| Manufacturing activity | | | | | | | | | | | Total activity | | | | | | | |
|------------------------|------------------------|--------------------------------|--------|--------------------------|--------|-------------------------------|---------|--------------------------------|-----------|---------|---|-------------|-----------|---------|----------------------|---------|-------|--------------------|
| Year | Estab-lish-ments (No.) | Production and related workers | | Person hours paid ('000) | Wages | Cost of fuel and elec-tricity | | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture | Value added | Employees | | Value added (\$'000) | | | |
| | | (No.) | (No.) | | | City | Tri- | | Elec- | Fuel | | | Cost | Closing | | Opening | (No.) | Salaries and wages |
| | | | | | | | | | | | | | | | | | | |
| 1970 | 112 | 7 082 | 15 012 | 42 801 | 2 348 | 144 464 | 29 125 | 31 630 | 263 123 | 118 815 | 10 870 | 75 844 | 136 998 | | | | | |
| 1971 | 119 | 7 105 | 15 207 | 45 857 | 2 683 | 153 725 | 31 438 | 30 933 | 289 628 | 132 716 | 10 721 | 80 205 | 150 563 | | | | | |
| 1972 | 126 | 7 494 | 15 725 | 52 548 | 3 285 | 171 621 | 31 040 | 33 664 | 324 065 | 151 783 | 11 136 | 88 915 | 167 123 | | | | | |
| 1973 | 117 | 7 672 | 16 033 | 60 216 | 3 404 | 194 574 | 33 994 | 35 115 | 368 756 | 171 898 | 11 165 | 97 078 | 184 878 | | | | | |
| 1974 | 115 | 8 282 | 17 024 | 71 285 | 4 250 | 266 871 | 36 229 | 50 300 | 488 999 | 231 949 | 11 941 | 115 154 | 246 568 | | | | | |
| 1975 | 116 | 7 913 | 16 145 | 76 496 | 4 500 | 264 291 | 51 120 | 50 381 | 491 367 | 221 838 | 11 562 | 125 690 | 240 914 | | | | | |
| 1976 | 114 | 7 681 | 15 763 | 84 374 | 6 006 | 301 297 | 51 307 | 57 762 | 533 449 | 232 601 | 11 367 | 137 697 | 252 700 | | | | | |
| 1977 | 106 | 6 773 | 13 933 | 79 176 | 6 677 | 286 043 | 54 032 | 56 100 | 529 585 | 238 934 | 9 816 | 132 330 | 243 811 | | | | | |
| 1978 | 124 | 7 413 | 15 179 | 92 665 | 8 249 | 324 880 | 55 961 | 58 641 | 587 020 | 256 570 | 10 473 | 148 113 | 262 678 | | | | | |
| 1979 | 128 | 7 544 | 15 412 | 104 418 | 8 477 | 388 513 | 59 404 | 71 923 | 694 816 | 310 346 | 10 350 | 162 250 | 319 408 | | | | | |
| 1980 | 136 | 7 972 | 16 228 | 118 846 | 10 538 | 535 797 | 72 189 | 76 898 | 900 066 | 358 439 | 10 978 | 188 940 | 365 977 | | | | | |
| 1981 | 133 | 8 065 | 16 560 | 139 937 | 13 211 | 616 964 | 82 185 | 89 168 | 1 025 532 | 402 341 | 11 148 | 216 691 | 411 112 | | | | | |
| 1982 | 135 | 7 139 | 14 784 | 135 035 | 15 862 | 626 385 | 91 036 | 90 784 | 1 030 114 | 387 615 | 10 148 | 222 593 | 399 586 | | | | | |
| 1983 | 132 | 7 179 | 14 721 | 146 848 | 15 582 | 652 644 | 70 069 | 77 678 | 1 114 631 | 455 339 | 10 300 | 238 301 | 477 408 | | | | | |
| 1984 | 137 | 7 679 | 15 287 | 164 266 | 17 262 | 716 379 | 89 241 | 116 290 | 1 209 437 | 484 845 | 10 711 | 254 278 | 500 254 | | | | | |
| 1985 | 142 | 7 634 | 15 828 | 175 523 | 17 984 | 761 542 | 105 255 | 122 830 | 1 280 717 | 518 767 | 10 553 | 266 389 | 533 834 | | | | | |

Sources: Statistics Canada, Catalogue Nos. 36-206, 36-215 and 1985 Census of Manufactures, special compilation.

SECTION VIII

EMPLOYMENT AND EARNINGS

Table 8.1. Employment in the forest' industry, by industry group, Ontario, 1970-1985.

| Year | Logging | Sawmills and plan- ing mills | Other wood industries | Total wood industries | Pulp and paper mills | Other paper and allied industries | Total paper and allied industries | Total |
|------|---------|------------------------------------|-----------------------------|-----------------------------|----------------------------|---|---|--------|
| 1970 | 9 567 | 5 361 | 11 303 | 16 664 | 22 201 | 22 693 | 44 894 | 71 125 |
| 1971 | 8 125 | 5 204 | 11 631 | 16 835 | 21 305 | 22 562 | 43 867 | 68 827 |
| 1972 | 7 783 | 5 595 | 13 003 | 18 598 | 21 044 | 23 536 | 44 580 | 70 961 |
| 1973 | 8 983 | 6 620 | 14 042 | 20 662 | 21 271 | 24 120 | 45 391 | 75 036 |
| 1974 | 9 673 | 6 557 | 13 950 | 20 507 | 21 909 | 25 495 | 47 404 | 77 584 |
| 1975 | 8 028 | 5 444 | 13 840 | 19 284 | 20 912 | 24 266 | 45 178 | 72 490 |
| 1976 | 7 694 | 5 660 | 14 206 | 19 866 | 21 693 | 23 952 | 45 645 | 73 205 |
| 1977 | 8 447 | 6 221 | 13 889 | 20 110 | 21 604 | 21 884 | 43 488 | 72 045 |
| 1978 | 9 569 | 6 888 | 15 054 | 21 942 | 22 177 | 23 032 | 45 209 | 76 720 |
| 1979 | 9 684 | 7 105 | 15 797 | 22 902 | 22 539 | 23 633 | 46 172 | 78 758 |
| 1980 | 9 578 | 6 967 | 14 381 | 21 348 | 23 105 | 24 756 | 47 861 | 78 787 |
| 1981 | 9 003 | 6 630 | 14 340 | 20 970 | 22 776 | 24 605 | 47 381 | 77 354 |
| 1982 | 7 079 | 6 005 | 13 010 | 19 015 | 21 826 | 22 091 | 43 917 | 70 011 |
| 1983 | 7 826 | 6 433 | 13 129 | 19 562 | 20 708 | 20 293 | 41 001 | 68 389 |
| 1984 | 9 515 | 6 886 | 13 954 | 20 840 | 20 447 | 21 243 | 41 690 | 72 045 |
| 1985 | 8 482 | 7 686 | 15 521 | 23 207 | 19 831 | 21 159 | 40 990 | 76 679 |

Source: Statistics Canada. Catalogue No. 25-202 and 1985 Census of Manufactures, special compilation.

Table 8.2. Estimated weekly earnings^a in the Ontario forest sector, 1985, 1986 and 1987 (\$).

| | Forestry | All wood industries | Sawmills and planing mills | All paper and allied industries | Pulp and paper mills | Average of major forestry industries | All manufacturing industries |
|-------------|----------|---------------------|----------------------------|---------------------------------|----------------------|--------------------------------------|------------------------------|
| 1985 | | | | | | | |
| Jan. | 580.41 | 395.78 | 443.07 | 560.90 | 652.45 | 512.36 | 486.53 |
| Feb. | 645.83 | 398.28 | 461.28 | 563.28 | 648.30 | 508.63 | 498.11 |
| Mar. | 556.33 | 418.75 | 469.04 | 565.76 | 647.52 | 513.73 | 502.06 |
| Apr. | 585.37 | 409.71 | 455.30 | 568.02 | 657.33 | 521.04 | 503.11 |
| May | 530.90 | 401.76 | 445.05 | 578.87 | 672.60 | 503.84 | 503.10 |
| June | 532.89 | 407.21 | 451.86 | 580.45 | 664.70 | 506.85 | 499.00 |
| July | 502.81 | 390.26 | 449.22 | 575.74 | 660.14 | 489.60 | 497.88 |
| Aug. | 488.50 | 399.48 | 459.03 | 581.08 | 658.51 | 489.69 | 503.30 |
| Sept. | 554.69 | 399.19 | 464.07 | 581.89 | 662.35 | 511.92 | 508.16 |
| Oct. | 556.42 | 398.96 | 452.88 | 592.31 | 675.19 | 515.89 | 512.67 |
| Nov. | 596.00 | 392.89 | 467.05 | 585.67 | 674.13 | 524.85 | 520.59 |
| Dec. | 610.49 | 371.44 | 448.88 | 585.62 | 673.26 | 522.52 | 497.88 |
| Avg | 554.96 | 398.64 | 455.56 | 576.63 | 662.21 | 510.08 | 502.70 |
| 1986 | | | | | | | |
| Jan. | 645.83 | 386.44 | 472.22 | 589.15 | 667.64 | 540.47 | 521.54 |
| Feb. | 661.29 | 398.13 | 481.46 | 591.58 | 671.24 | 550.33 | 528.55 |
| Mar. | 655.25 | 391.64 | 455.61 | 584.97 | 668.54 | 543.95 | 521.86 |
| Apr. | 605.93 | 373.70 | 422.29 | 592.59 | 667.57 | 524.07 | 523.13 |
| May | 574.69 | 370.90 | 425.61 | 595.63 | 687.19 | 513.74 | 521.97 |
| June | 596.47 | 395.62 | 441.76 | 606.18 | 702.98 | 532.76 | 520.16 |
| July | 610.95 | 404.31 | 423.97 | 601.88 | 698.98 | 539.05 | 518.85 |
| Aug. | 562.59 | 394.46 | 435.67 | 596.28 | 700.73 | 517.78 | 514.33 |
| Sept. | 587.09 | 398.84 | 439.22 | 603.36 | 706.02 | 529.76 | 525.14 |
| Oct. | 590.76 | 415.99 | 433.87 | 604.10 | 703.13 | 536.95 | 533.11 |
| Nov. | 642.66 | 421.29 | 455.80 | 606.46 | 709.31 | 556.80 | 539.97 |
| Dec. | 626.70 | 400.13 | 421.09 | 605.72 | 708.54 | 544.18 | 531.06 |
| Avg | 613.35 | 395.95 | 442.38 | 598.16 | 690.99 | 535.82 | 524.97 |
| 1987 | | | | | | | |
| Jan. | 643.34 | 418.85 | 469.39 | 609.93 | 704.76 | 557.37 | 534.13 |
| Feb. | 658.79 | 448.56 | 479.09 | 610.47 | 708.11 | 572.61 | 544.37 |
| Mar. | 632.63 | 434.67 | 454.91 | 610.19 | 710.78 | 559.16 | 543.12 |

^a Including overtime

Source: Statistics Canada. Catalogue No. 72-002.

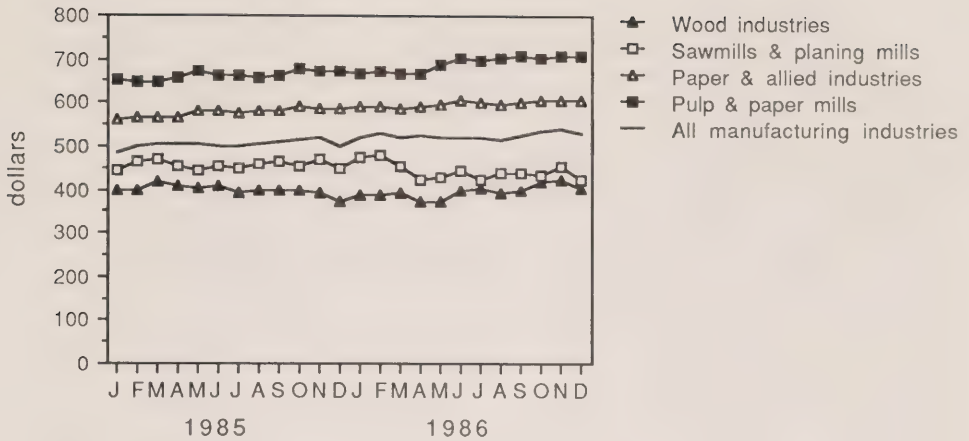


Figure 7. Average weekly earnings in Ontario's forest sector, 1985 and 1986.

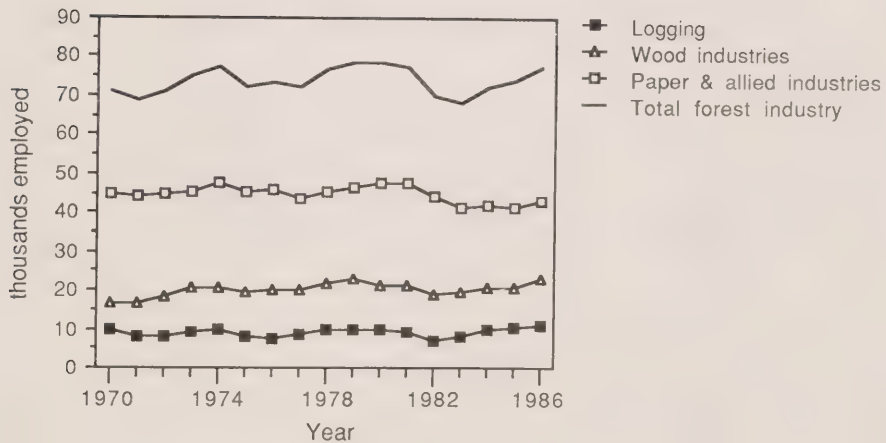


Figure 8. Employment in Ontario's forest industry, by industry group, 1970-1986.

Source: Statistics Canada. Catalogue No. 72-002 and No. 25-202.

Table 9.3 Estimated number of employees, by forest sector, in Ontario, 1985-1987 (monthly).

| | Forestry | | | Wood industries | | | Paper and allied | | | Total | | |
|-------|----------|------|------|-----------------|------|------|------------------|------|------|-------|------|------|
| | 1985 | 1986 | 1987 | 1985 | 1986 | 1987 | 1985 | 1986 | 1987 | 1985 | 1986 | 1987 |
| | | | | | | | ('000 employed) | | | | | |
| Jan. | 12.6 | 10.2 | 11.1 | 15.2 | 22.1 | 21.5 | 41.1 | 41.8 | 42.7 | 69.0 | 74.3 | 75.3 |
| Feb. | 12.2 | 10.2 | 11.2 | 17.3 | 22.5 | 24.0 | 41.1 | 42.1 | 43.7 | 70.6 | 74.5 | 78.9 |
| Mar. | 11.8 | 9.5 | 10.9 | 17.8 | 22.8 | 24.9 | 40.2 | 40.4 | 45.1 | 69.9 | 74.4 | 80.9 |
| Apr. | 8.2 | 8.3 | | 19.0 | 25.3 | | 41.3 | 42.0 | | 68.6 | 75.6 | |
| May | 11.3 | 9.5 | | 21.9 | 24.0 | | 41.4 | 43.5 | | 74.6 | 77.0 | |
| June | 12.4 | 11.4 | | 22.4 | 24.3 | | 41.7 | 44.1 | | 76.4 | 79.8 | |
| July | 13.9 | 13.0 | | 21.3 | 22.6 | | 42.3 | 44.1 | | 77.5 | 79.7 | |
| Aug. | 14.2 | 13.7 | | 22.0 | 23.4 | | 41.5 | 44.6 | | 77.7 | 81.7 | |
| Sept. | 13.6 | 12.6 | | 21.8 | 22.6 | | 41.3 | 44.3 | | 76.7 | 79.5 | |
| Oct. | 11.3 | 11.0 | | 22.8 | 22.3 | | 40.7 | 43.6 | | 74.8 | 76.9 | |
| Nov. | 10.7 | 11.3 | | 24.5 | 21.7 | | 41.4 | 43.4 | | 76.6 | 76.4 | |
| Dec. | 10.0 | 11.2 | | 24.3 | 22.3 | | 42.0 | 43.6 | | 75.6 | 77.1 | |
| Avg | 11.9 | 11.0 | | 20.9 | 23.0 | | 41.3 | 43.1 | | 74.0 | 77.2 | |

Source: Statistics Canada, Cat. No. 72-002.

Table 8.4. Ontario forest sector collective bargaining agreements expiring in 1987.

| A. IN TERMS OF AGREEMENTS BY MONTH | | | | | | | | | | | | | |
|------------------------------------|------|------|------|------|-----|------|------|------|------|------|------|------|-------|
| Industry | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Total |
| Woods | 1 | 3 | 3 | 6 | 8 | 3 | 2 | 2 | 3 | 5 | 5 | 5 | 46 |
| Paper and allied | 3 | 4 | 7 | 71 | 3 | 4 | 1 | 7 | 7 | 5 | 3 | 6 | 121 |
| Forestry | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 15 | 1 | 0 | 0 | 1 | 24 |

| B. IN TERMS OF EMPLOYEES COVERED BY MONTH | | | | | | | | | | | | | |
|---|------|------|------|--------|-------|------|------|-------|-------|------|------|------|--------|
| Industry | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Total |
| Woods | 20 | 91 | 368 | 482 | 1 532 | 372 | 310 | 24 | 211 | 507 | 750 | 55 | 4 722 |
| Paper and allied | 157 | 301 | 453 | 15 745 | 782 | 203 | 34 | 1 918 | 1 051 | 332 | 591 | 623 | 22 190 |
| Forestry | 0 | 0 | 0 | 278 | 120 | 0 | 0 | 5 008 | 206 | 0 | 0 | 8 | 5 620 |

| C. BY SIZE OF BARGAINING UNIT | | | | | | | | | | | | | | | | |
|-------------------------------|----------|---------|---------|-----------|-----------|------------|---------------|-------|------|-------|---|-------|---|-------|-------|--------|
| | Under 25 | 25 - 49 | 50 - 99 | 100 - 199 | 200 - 499 | 500 - 1000 | 1000 and Over | Total | | | | | | | | |
| | Agts | Empls | Agts | Empls | Agts | Empls | Agts | Empls | Agts | Empls | | | | | | |
| Woods | 17 | 213 | 6 | 211 | 5 | 350 | 8 | 1 099 | 10 | 2 849 | 0 | 0 | 0 | 46 | 4 722 | |
| Paper and allied | 23 | 333 | 20 | 700 | 21 | 1 527 | 26 | 3 484 | 20 | 6 141 | 7 | 4 460 | 4 | 5 545 | 121 | 22 190 |
| Forestry | 7 | 98 | 4 | 121 | 1 | 74 | 3 | 434 | 5 | 1 431 | 3 | 2 162 | 1 | 1 300 | 24 | 5 620 |

Source: Labour Canada and the Ontario Ministry of Labour. Collective bargaining settlements and negotiations in Ontario. Monthly, various issues.

Table B.5. Ontario forest industry collective bargaining agreements expiring in 1987 and 1988^a, by company.

| Employer | Location | Union | Number of employees | Effective date | Expiry date | Base rate ^b |
|------------------------------------|-------------------|-------------------------------|---------------------|----------------|-------------|------------------------|
| Porestry | | | | | | |
| Abitibi-Price Inc. | Iroquois Falls | Carpenters | 343 | 01/09/84 | 31/08/87 | \$13.65 |
| | Thunder Bay | Carpenters | 236 | 01/09/84 | 31/08/87 | \$13.65 |
| Domtar Inc. | Nipigon | Carpenters | 200 | 01/09/84 | 31/08/87 | \$13.65 |
| E.B. Eddy Forest Products Ltd. | Espanola | Carpenters | 325 | 01/09/84 | 31/08/87 | \$13.65 |
| Great Lakes Forest Products Ltd. | Thunder Bay | Carpenters | 1479 | 01/09/84 | 31/08/87 | \$13.65 |
| | Dryden | Lumber/Mill Workers | | 01/10/84 | 31/08/87 | \$13.65 |
| Kimberly-Clark of Canada Ltd. | Longlac | Carpenters | 770 | 01/09/84 | 31/08/87 | \$13.65 |
| Spruce Falls Power and Paper Co. | Kapuskasing | Carpenters | 450 | 01/09/84 | 31/08/87 | \$13.65 |
| Wood Industries | | | | | | |
| Consolidated Bathurst | Braeside | Woodworkers | 225 | 01/07/85 | 30/06/88 | \$10.08 |
| Dubreuil Brothers Limited | Dubreuilville | Employees' Association | 250 | 01/04/84 | 31/03/87 | \$11.09 |
| E.B. Eddy Forest Products Ltd. | Nairn Twp. | Canadian Paperworkers | 243 | 01/09/85 | 31/08/88 | \$12.47 |
| G.W. Martin Company | Sault Ste. Marie | Woodworkers | 270 | 29/11/85 | 28/11/87 | \$ 9.34 |
| Levesque Plywood Limited | Hearst | Carpenters | 245 | 01/06/84 | 31/05/87 | \$10.22 |
| Northern Wood Preservers Ltd. | Thunder Bay | Canadian Paperworkers | 270 | 16/05/84 | 15/05/87 | \$11.04 |
| Weldwood of Canada Ltd. | Longlac | Carpenters | 240 | 01/06/84 | 31/05/87 | \$10.34 |
| Paper and Allied Industries | | | | | | |
| Abitibi-Price Inc. | Ontario | Canadian Paperworkers | 2421 | 01/05/84 | 31/04/87 | \$12.83 |
| Boise Cascade Canada Limited | F. Frances/Kenora | Canadian Paperworkers | 660 | 01/05/84 | 30/04/87 | \$12.83 |
| Domtar Inc. | Cornwall | United Paperworkers | 789 | 01/05/84 | 30/04/87 | \$12.83 |
| | St. Catharines | Canadian Paperworkers | 1330 | 01/05/84 | 30/04/87 | \$11.56 |
| | Toronto | | | | | |
| | Red Rock | Canadian Paperworkers | 500 | 01/05/84 | 31/04/87 | \$12.83 |
| F.B. Eddy Forest Products Ltd. | Ottawa | Canadian Paperworkers | 450 | 01/05/84 | 31/04/87 | \$12.83 |
| Fraser Inc. | Espanola | Canadian Paperworkers | 745 | 01/05/84 | 30/04/87 | \$12.83 |
| Great Lakes Forest Products Ltd. | Thorold | Canadian Paperworkers | 554 | 01/05/84 | 30/04/87 | \$11.97 |
| | Dryden | Canadian Paperworkers | 900 | 01/09/84 | 31/08/87 | \$12.83 |
| James River-Marathon | Thunder Bay | Canadian Paperworkers | 1870 | 01/05/84 | 30/04/87 | \$12.83 |
| Kimberly-Clark of Canada Ltd. | Marathon | United Paperworkers | 375 | 01/05/84 | 01/05/87 | \$12.83 |
| | Terrace Bay | United Paperworkers | 700 | 01/05/84 | 30/04/87 | \$12.83 |
| | | Electrical Workers | 35 | | | |
| Spruce Falls Power and Paper Co. | Kapuskasing | Canadian Paperworkers | 1164 | 01/05/84 | 30/04/87 | \$12.83 |
| St. Marys Paper Inc. | Sault Ste. Marie | Canadian Paperworkers | 298 | 01/05/84 | 31/04/87 | \$12.83 |
| Ontario Paper Co. | Thorold | Paperworkers and Longshoremen | 596 | 01/05/84 | 30/04/87 | \$12.83 |

^a Based on contracts settled as of December 1986, and settlements covering 200 or more Ontario employees

^b Lowest hourly wage paid

Source: Labour Canada and the Ontario Ministry of Labour. Collective bargaining settlements and negotiations, 1986-87, various issues.

SECTION IX

MISCELLANEOUS RELATED DATA

Table 9.1. Summary of forest management agreements.

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---------------------------------------|--|-------------|---------------------------------|----------|
| Abitibi-Price Inc. | Iroquois Falls Forest FMA No. 500200 | 28-04-80 | productive | 7 352.4 |
| | | | unproductive | 2 102.4 |
| | | | Total | 9 454.8 |
| Great Lakes Forest Products Ltd. | English River Forest FMA No. 500300 | 20-06-80 | productive | 4 624.2 |
| | | | unproductive | 1 642.9 |
| | | | Total | 6 267.1 |
| E.B. Eddy Forest Products Ltd. | Upper Spanish River Forest FMA No. 500400 | 11-08-80 | productive | 5 587.3 |
| | | | unproductive | 1 559.3 |
| | | | Total | 7 146.6 |
| E.B. Eddy Forest Products Ltd. | Lower Spanish River Forest FMA No. 500500 | 11-08-80 | productive | 5 136.8 |
| | | | unproductive | 1 474.3 |
| | | | Total | 6 611.1 |
| Spruce Falls Power and Paper Co. Ltd. | Gordon Cosens Forest FMA No. 500600 | 19-09-80 | productive | 13 867.9 |
| | | | unproductive | 2 236.2 |
| | | | Total | 16 104.1 |
| Abitibi-Price Inc. | Spruce River Forest FMA No. 500700 | 15-12-81 | productive | 5 992.3 |
| | | | unproductive | 1 531.2 |
| | | | Total | 7 523.5 |
| Ontario Paper Co. | Black River Forest FMA No. 500800 | 31-03-82 | productive | 2 198.2 |
| | | | unproductive | 354.0 |
| | | | Total | 2 552.2 |

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---------------------|---|-------------|---------------------------------|---------|
| Domtar Inc. | Lake Nipigon Forest FMA No. 500900 | 31-03-82 | productive | 5 189.0 |
| | | | unproductive | 940.3 |
| | | | Total | 6 129.3 |
| Ontario Paper Co. | Nagagami Forest FMA No. 501000 | 14-03-83 | productive | 3 819.3 |
| | | | unproductive | 676.8 |
| | | | Total | 4 496.1 |
| Pineland Timber Co. | Pineland Forest FMA No. 501100 | 28-02-83 | productive | 2 649.0 |
| | | | unproductive | 529.0 |
| | | | Total | 3 178.3 |
| Boise Cascade Can. | Seine River Forest FMA No. 501200 | 30-03-83 | productive | 1 890.9 |
| | | | unproductive | 799.7 |
| | | | Total | 2 690.6 |
| Boise Cascade Can. | Manitou Forest FMA No. 501300 | 30-03-83 | productive | 2 735.9 |
| | | | unproductive | 1 174.2 |
| | | | Total | 3 910.1 |
| Waferboard Corp. | Romeo Mallette Forest FMA No. 501400 | 21-02-83 | productive | 2 857.4 |
| | | | unproductive | 706.9 |
| | | | Total | 3 564.3 |
| Abitibi-Price Inc. | White River Forest FMA No. 501500 | 16-06-83 | productive | 4 873.9 |
| | | | unproductive | 884.0 |
| | | | Total | 5 757.9 |

(cont'd)

Table 9.1. **Summary of forest management agreements** (cont'd).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|------------------------|--|-------------|---------------------------------|---------|
| Ontario Paper Co. | Cochrane Forest FMA No. 501600 | 20-06-83 | productive | 534.5 |
| | | | unproductive | 127.0 |
| | | | Total | 661.5 |
| Ontario Paper Co. | Gardiner Forest FMA No. 501700 | 20-06-83 | productive | 908.2 |
| | | | unproductive | 148.6 |
| | | | Total | 1 056.8 |
| Ontario Paper Co. | Timmins Forest FMA No. 501800 | 20-06-83 | productive | 1 603.8 |
| | | | unproductive | 291.1 |
| | | | Total | 1 894.9 |
| Boise Cascade Can. | East Patricia Forest FMA No. 501900 | 02-04-84 | productive | 2 319.7 |
| | | | unproductive | 918.1 |
| | | | Total | 3 237.8 |
| Boise Cascade Can. | Lake of the Woods Forest FMA No. 502000 | 02-04-84 | productive | 2 240.8 |
| | | | unproductive | 1 033.8 |
| | | | Total | 3 274.6 |
| Boise Cascade Can. | Packwash Forest FMA No. 502100 | 02-04-84 | productive | 2 982.8 |
| | | | unproductive | 994.4 |
| | | | Total | 3 977.2 |
| Dubreuil Brothers Ltd. | Magpie Forest FMA No. 502200 | 24-02-84 | productive | 3 197.2 |
| | | | unproductive | 678.0 |
| | | | Total | 3 875.2 |

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|----------------------------------|---|-------------|---------------------------------|----------|
| Great Lakes Forest Products Ltd. | Trout Lake Forest FMA No. 502300 | 24-09-84 | productive | 7 365.8 |
| | | | unproductive | 2 392.7 |
| | | | Total | 9 758.5 |
| Great Lakes Forest Products Ltd. | Dog River-Mattawin Forest FMA No. 502400 | 13-06-85 | productive | 6 773.0 |
| | | | unproductive | 1 962.6 |
| | | | Total | 8 735.6 |
| Great Lakes Forest Products Ltd. | Bright Sands Forest FMA No. 502500 | 13-06-85 | productive | 3 087.8 |
| | | | unproductive | 1 277.3 |
| | | | Total | 4 365.1 |
| Kimberly-Clark of Canada Ltd. | Nakina Forest FMA No. 502600 | 13-06-85 | productive | 7 241.4 |
| | | | unproductive | 1 817.5 |
| | | | Total | 9 058.9 |
| Kimberly-Clark of Canada Ltd. | Longlac Forest FMA No. 502700 | 13-06-85 | productive | 8 570.8 |
| | | | unproductive | 1 436.0 |
| | | | Total | 10 006.8 |
| Hearst Forest Management Inc. | Hearst Forest FMA No. 502800 | 06-11-86 | productive | 10 097.8 |
| | | | unproductive | 1 964.4 |
| | | | Total | 12 062.2 |
| Great Lakes Forest Products Ltd. | Black Sturgeon Forest FMA No. 502900 | 17-07-86 | productive | 4 518.7 |
| | | | unproductive | 821.9 |
| | | | Total | 5 340.6 |

(cont'd)

Table 9.1. Summary of forest management agreements (concl.).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|------------------------------------|------------------------------------|----------------|------------------------------------|---------|
| Superior Forest Management Ltd. | Superior Forest FMA No. 503000 | 28-05-87 | productive | 7 207.1 |
| | | | unproductive | 1 324.6 |
| | | | Total | 8 531.7 |
| McKenzie Forest Products Inc. | Lac Seul Forest FMA No. 503100 | 23-07-87 | productive | 5 404.5 |
| | | | unproductive | 1 196.5 |
| | | | Total | 6 601.0 |

Source: Ontario Ministry of Natural Resources

Table 9.2. Canada-Ontario Forest Resource Development Agreement.

Duration: 1 April, 1984 to 31 March, 1989

Total cost: \$150 million (cost-shared 50/50, Canada/Ontario)

- Objectives:
- a) to encourage and support forest management activity in order to increase the sustainable supply of wood fibre from the forest resource and ensure the long-term viability and competitiveness of the forest industry in Ontario;
 - b) to improve and increase the utilization of the forest resource to enhance future forest industry development opportunities;
 - c) to contribute to the economic development of the Ontario forest sector, including the improvement of employment opportunities in the sector.

FUNDING LEVELS FOR PROGRAMS

| Program | Federal | | Provincial | | Total |
|--|---------------------|-------------|---------------------|-------------|---------|
| | Unilateral delivery | Cost-shared | Unilateral delivery | Cost-shared | |
| | | | \$000 | | |
| 1. Forest Management and Renewal Operations | | | | | |
| 1.1 Intensive forest management | 4 000 | 26 500 | - | 26 500 | 57 000 |
| 1.2 Stock production | - | 20 000 | - | 20 000 | 40 000 |
| 1.3 Tree improvement | - | 2 500 | - | 2 500 | 5 000 |
| 1.4 Private land forestry | 4 000 | 2 000 | - | 2 000 | 8 000 |
| 1.5 Forest access | - | 4 500 | 14 000 | 4 500 | 23 000 |
| 2. Forest Management and Renewal Support | | | | | |
| 2.1 Management data, growth and yield studies, inventory | - | 2 500 | - | 2 500 | 5 000 |
| 3. Innovative Programs | | | | | |
| 3.1 Methodology to optimize investments | - | 250 | - | 250 | 500 |
| 3.2 Integrated resource management | - | 250 | - | 250 | 500 |
| 3.3 Research, development and application | 4 000 | 1 000 | - | 1 000 | 6 000 |
| 3.4 Utilization, marketing and product development | - | 500 | - | 500 | 1 000 |
| 4. Administration, Communications and Evaluation | 2 000 | 1 000 | - | 1 000 | 4 000 |
| | 14 000 | 61 000 | 14 000 | 61 000 | 150 000 |

Source: Canada-Ontario Forest Resource Development Agreement.

Table 9.3. Canada-Ontario Forest Resource Development Agreement, actual fiscal expenditures, 1984-1985 to 1986-1987 (\$'000).

| Programs | 1984-1985 | | | 1985-1986 | | | 1986-1987 | | |
|--|--------------------------|---------------------------|------------------------------|--------------------------|---------------------------|------------------------------|--------------------------|---------------------------|------------------------------|
| | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) |
| 1. Forest Management and Renewal Operations | | | | | | | | | |
| 1.1 Intensive forest management | 12 356 | -- -- -- | -- -- -- | 7 429 | 82 | -- -- -- | 13 165 | 870 | -- -- -- |
| 1.2 Stock production | 2 144 | -- -- -- | -- -- -- | 9 391 | -- -- -- | -- -- -- | 10 125 | -- -- -- | -- -- -- |
| 1.3 Tree improvement | -- -- -- | -- -- -- | -- -- -- | 1 094 | -- -- -- | -- -- -- | 1 150 | -- -- -- | -- -- -- |
| 1.4 Private land forestry | 22 | -- -- -- | -- -- -- | 1 324 | 187 | -- -- -- | 2 560 | 516 | -- -- -- |
| 1.5 Forest access | -- -- -- | -- -- -- | -- -- -- | -- -- -- | -- -- -- | 788 | 366 | -- -- -- | 2 963 |
| 2. Forest Management and Renewal Support | | | | | | | | | |
| 2.1 Management data, growth and yield studies, inventory | 290 | -- -- -- | -- -- -- | 768 | -- -- -- | -- -- -- | 2 288 | -- -- -- | -- -- -- |
| 3. Innovative Programs | | | | | | | | | |
| 3.1 Methodology to optimize investments | -- -- -- | -- -- -- | -- -- -- | -- -- -- | -- -- -- | -- -- -- | 49 | -- -- -- | -- -- -- |
| 3.2 Integrated resource management | -- -- -- | -- -- -- | -- -- -- | -- -- -- | -- -- -- | -- -- -- | 260 | -- -- -- | -- -- -- |
| 3.3 Research, development and application | -- -- -- | -- -- -- | -- -- -- | 273 | 156 | -- -- -- | 546 | 826 | -- -- -- |
| 3.4 Utilization, marketing and product development | -- -- -- | -- -- -- | -- -- -- | 80 | -- -- -- | -- -- -- | 6 | -- -- -- | -- -- -- |
| 4. Administration, Communications and Evaluation | 4 | 110 | -- -- -- | 233 | 363 | -- -- -- | 431 | 466 | -- -- -- |
| Total | 14 816 | 110 | -- -- -- | 20 592 | 788 | 788 | 30 946 | 2,678 | 2 963 |

^a Cost-shared 50/50 by the federal and provincial governments

Source: Canada-Ontario Forest Resource Development Agreement. Annual Reports, 1985-86 and 1986-87 (draft).

Table 9.4. Summary of capital and repair expenditures in the forest industry in Ontario and Canada, 1970-1987 (\$'000,000).

| | Ontario | | | Total Ontario | Total Canada | Ontario as % of Canada |
|-------------------|---------|-------|------------------|---------------|--------------|------------------------|
| | Logging | Wood | Paper and allied | | | |
| 1970 | 26.5 | 30.3 | 162.7 | 219.5 | 1 155.7 | 19 |
| 1971 | 26.7 | 25.3 | 160.8 | 212.8 | 1 207.5 | 18 |
| 1972 | 31.5 | 39.8 | 132.7 | 204.0 | 1 212.1 | 17 |
| 1973 | 46.0 | 63.2 | 162.1 | 271.3 | 1 432.0 | 19 |
| 1974 | 58.6 | 92.2 | 251.6 | 402.4 | 1 803.4 | 22 |
| 1975 | 59.7 | 80.5 | 282.6 | 422.8 | 1 722.7 | 25 |
| 1976 | 54.7 | 58.6 | 392.4 | 505.7 | 2 013.9 | 25 |
| 1977 | 73.5 | 59.0 | 385.2 | 517.7 | 2 174.9 | 24 |
| 1978 | 80.0 | 69.8 | 289.3 | 439.1 | 2 353.9 | 19 |
| 1979 | 97.3 | 80.3 | 404.8 | 582.4 | 2 856.5 | 20 |
| 1980 | 126.4 | 104.7 | 530.7 | 761.8 | 3 657.3 | 21 |
| 1981 | 139.1 | 101.7 | 898.7 | 1 139.5 | 4 447.7 | 26 |
| 1982 | 81.6 | 80.0 | 810.0 | 971.6 | 3 765.8 | 26 |
| 1983 | 97.8 | 85.8 | 493.3 | 676.9 | 2 982.5 | 23 |
| 1984 | 120.4 | 105.8 | 608.7 | 834.9 | 3 437.5 | 24 |
| 1985 | 123.2 | 94.2 | 908.8 | 1 126.2 | 4 432.2 | 23 |
| 1986 ^a | 107.6 | 101.0 | 654.9 | 863.5 | 4 338.9 | 20 |
| 1987 ^b | 104.5 | 128.9 | 745.4 | 978.8 | 5 465.2 | 18 |

^a Preliminary
^b Forecast

Source: Statistics Canada, Catalogue No. 25-202.

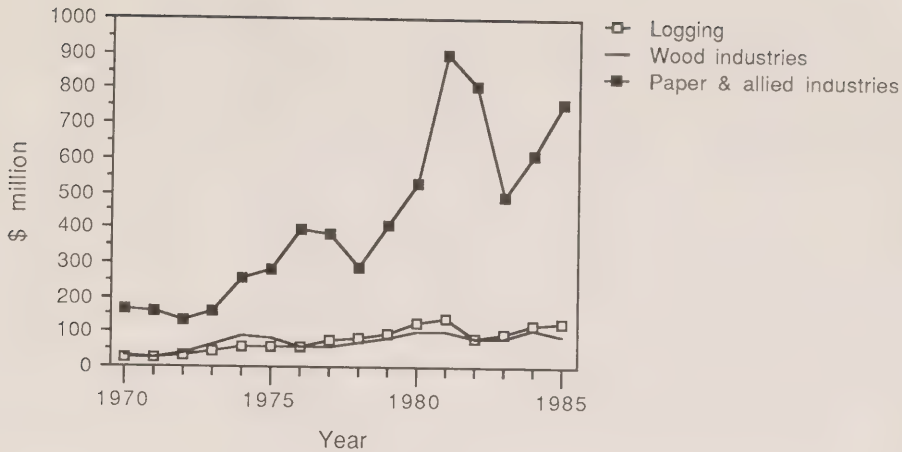


Figure 9. Forest industry capital and repair expenditures in Ontario, 1970-1985.

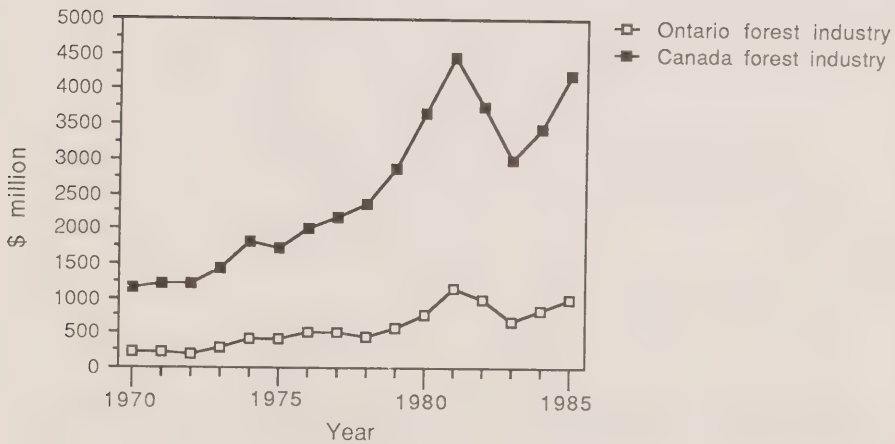


Figure 10. Forest industry capital and repair expenditures in Ontario and Canada, 1970-1985.

Source: Statistics Canada. Catalogue No. 25-202.

Table 9.5. Corporate taxable income in the forest sector in Canada and Ontario, 1974-1985 (\$'000).

| Year | Forestry | | Wood industries | | Paper and allied | | Total manufacturing | | Percentage ^a | |
|-------------------|----------|--------|-----------------|--------|------------------|---------|---------------------|-----------|-------------------------|------|
| | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. |
| 1974 | 42 160 | 4 172 | 182 922 | 37 986 | 744 411 | 261 061 | 6 279 829 | 2 972 730 | 14.8 | 10.1 |
| 1975 | 28 942 | 2 105 | 150 364 | 32 336 | 387 540 | 107 563 | 6 219 613 | 2 832 804 | 8.6 | 4.9 |
| 1976 | 43 436 | 2 753 | 245 446 | 35 027 | 375 114 | 70 511 | 5 850 503 | 2 771 188 | 10.6 | 3.8 |
| 1977 | 56 817 | 3 429 | 332 455 | 35 196 | 392 895 | 81 251 | 5 535 218 | 2 567 026 | 13.1 | 4.5 |
| 1978 | 65 406 | 5 573 | 554 759 | 52 091 | 644 059 | 151 874 | 6 762 325 | 2 965 755 | 17.7 | 6.9 |
| 1979 | 126 210 | 7 589 | 697 696 | 79 470 | 1 291 115 | 284 771 | 9 509 852 | 4 113 256 | 20.9 | 8.9 |
| 1980 | 147 949 | 11 374 | 318 650 | 57 150 | 1 378 262 | 409 936 | 10 863 269 | 4 622 537 | 15.6 | 10.1 |
| 1981 | 84 185 | 8 525 | 207 635 | 58 474 | 837 138 | 365 371 | 9 642 383 | 4 523 486 | 10.8 | 9.4 |
| 1982 | 75 200 | 9 983 | 133 859 | 46 402 | 336 566 | 108 618 | 6 204 744 | 3 022 859 | 7.6 | 5.1 |
| 1983 | 98 463 | 11 600 | 236 027 | 58 587 | 347 003 | 174 776 | 8 533 173 | 4 438 849 | 6.8 | 5.3 |
| 1984 | 127 827 | 18 196 | 265 182 | 65 467 | 680 540 | 275 447 | 12 185 743 | 6 831 500 | 7.8 | 5.0 |
| 1985 ^b | 133 008 | 17 239 | 310 842 | 73 533 | 710 496 | 333 357 | 12 088 306 | 6 651 409 | 8.4 | 6.1 |

^a Wood industries and paper and allied industries as a percentage of total manufacturing corporate taxable income

^b Preliminary

Source: Statistics Canada. Catalogue No. 61-208 and 61-208p.

Table 9.6. Price indices for selected pulp and paper commodities, 1981-1987.

| Year | Fine paper writing and reprod'n (domestic) | Corrugated board and linerboard (domestic) | Bleached sulphite pulp (export) | Bleached sulphate pulp (export) | Unbleached sulphate pulp (export) | Newsprint (white) in rolls (export) |
|----------------------|--|--|---------------------------------|---------------------------------|-----------------------------------|-------------------------------------|
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 116.2 | 108.8 | 92.4 | 93.5 | 95.2 | 104.7 |
| 1983 | 122.1 | 116.3 | 79.7 | 80.6 | 77.6 | 98.7 |
| 1984 | 126.5 | 132.8 | 97.1 | 102.2 | 97.7 | 109.6 |
| 1985 | 129.9 | 139.9 | 83.7 | 86.9 | 85.1 | 119.7 |
| 1986 | 136.4 | 139.6 | 95.6 | 98.2 | 91.7 | 123.0 |
| 1987 Q1 ^a | 143.4 | 147.8 | 111.5 | 115.6 | 106.7 | 124.2 |

^a Estimate, first quarter

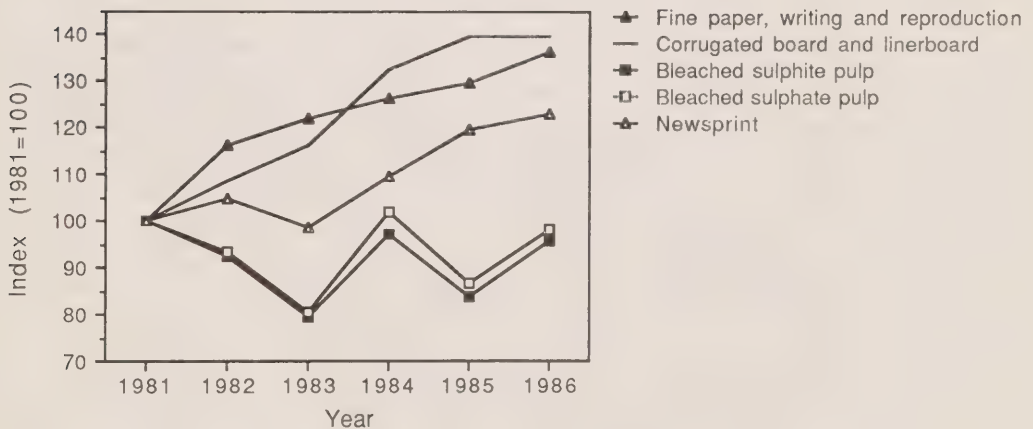


Figure 11. Price indices for selected pulp and paper commodities, 1981-1986.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.7. Selected forest industry selling price indices in Canada, 1981-1987.

| Year | Wood industries | Sawmills and planing mills | Veneer and plywood mills | Paper and allied industries | Pulp and paper mills | All manufacturing |
|----------------------|-----------------|----------------------------|--------------------------|-----------------------------|----------------------|-------------------|
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 99.6 | 98.5 | 93.2 | 103.3 | 101.3 | 106.7 |
| 1983 | 109.8 | 111.5 | 101.1 | 99.9 | 95.1 | 110.4 |
| 1984 | 107.6 | 106.6 | 97.4 | 111.2 | 108.5 | 115.4 |
| 1985 | 109.7 | 107.7 | 100.2 | 112.6 | 108.5 | 118.6 |
| 1986 | 118.9 | 117.6 | 115.4 | 117.3 | 113.9 | 119.6 |
| 1987 Q1 ^a | 119.9 | 116.5 | 118.1 | 124.3 | 121.6 | 120.3 |

^a Estimate, first quarter

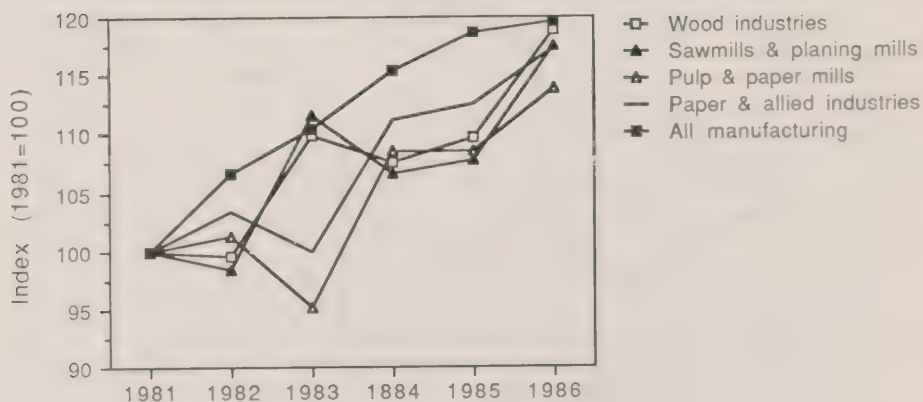


Figure 12. Selected forest industry selling price indices in Canada, 1981-1986.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.8. Industry price indices for selected forest products, 1981-1987.

| | Softwood lumber | | Veneer and plywood | | Wood pulp bleached paper grades for export | | Newsprint (Export) |
|-----------------|-----------------|--------------|--------------------|------------------|--|-----------------------|-----------------------|
| | Spruce | Jack pine | Birch veneer | Birch plywood | (Sulphate) (Sulphite) | (Sulphate) (Sulphite) | |
| | | | | | | | |
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 94.1 | 96.9 | 89.3 | 101.6 | 93.6 | 92.4 | 104.7 |
| 1983 | 118.1 | 121.9 | 98.7 | 105.3 | 80.9 | 79.7 | 98.7 |
| 1984 | 112.4 | 114.9 | 100.5 | 114.8 | 102.3 | 97.1 | 109.6 |
| 1985 | 118.1 | 109.8 | 85.1 | 113.6 | 87.3 | 83.7 | 119.7 |
| 1986 | 130.1 | 119.2 | 95.1 | 121.1 | 98.2 | 95.6 | 123.0 |
| 1987 | | | | | | | |
| Q1 ^a | 120.7 | 117.4 | 101.3 | 121.5 | 115.5 | 111.5 | 124.2 |

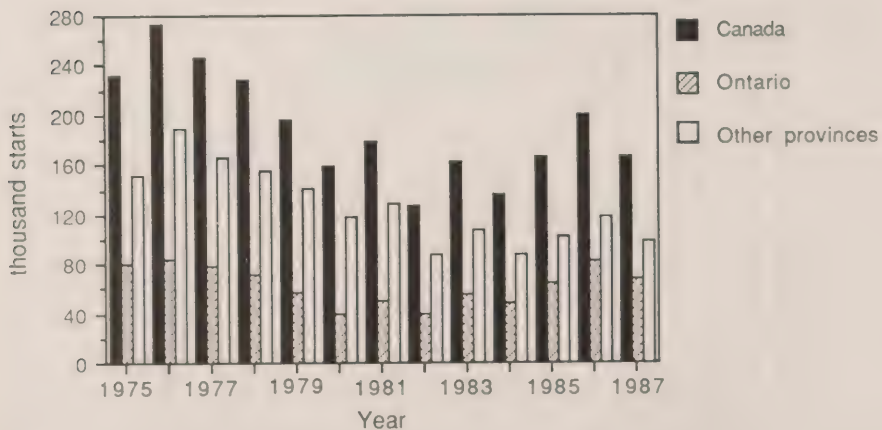
^a Estimate, first quarter

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.9. Summary of housing starts,^a by region, 1975-1987.

| Period | Atlantic | Quebec | Ontario | Prairies | British Columbia | Canada |
|-------------|----------|--------|---------|----------|------------------|---------|
| 1975 | 19 538 | 54 741 | 79 968 | 43 057 | 34 152 | 231 456 |
| 1976 | 20 793 | 68 748 | 84 682 | 61 253 | 37 727 | 273 203 |
| 1977 | 16 346 | 57 580 | 79 130 | 60 310 | 32 358 | 245 724 |
| 1978 | 14 095 | 43 671 | 71 710 | 69 573 | 28 618 | 227 667 |
| 1979 | 13 626 | 41 730 | 56 887 | 57 461 | 27 345 | 197 049 |
| 1980 | 10 864 | 29 186 | 40 127 | 40 878 | 37 546 | 158 601 |
| 1981 | 9 316 | 29 645 | 50 161 | 47 266 | 41 585 | 177 973 |
| 1982 | 8 412 | 23 492 | 38 508 | 35 641 | 19 807 | 125 860 |
| 1983 | 14 393 | 40 318 | 54 939 | 30 388 | 22 607 | 162 645 |
| 1984 | 10 834 | 41 902 | 48 171 | 17 824 | 16 169 | 134 900 |
| 1985 | 14 707 | 48 031 | 64 871 | 20 248 | 17 969 | 165 826 |
| 1986 | 15 609 | 60 348 | 81 470 | 21 671 | 20 687 | 199 785 |
| 1987 | | | | | | |
| 1st quarter | 9 000 | 71 000 | 103 000 | 24 000 | 26 000 | 233 000 |

^a Starts in urban centres of 10 000 population and over, seasonally adjusted at annual rates.



Note: Seasonally adjusted at annual rates
1987 forecast by Central Mortgage and
Housing Corporation.

Figure 13. Housing starts in Canada and Ontario, 1975-1987.

Source: Statistics Canada. Catalogue No. 64-002.

Table 9.10. Population by selected northern Ontario census divisions, 1981 and 1986.

| Census divisions | 1981 population | 1986 population ^a | Percentage change from 1981 to 1986 |
|----------------------------------|--------------------|---------------------------------|---|
| Algoma District | 133 553 | 130 820 | - 2.0 |
| Cochrane District | 96 875 | 92 983 | - 4.0 |
| Kenora District | 59 421 | 53 625 | - 9.8 |
| Manitoulin District | 11 001 | 9 741 | - 11.5 |
| Nipissing District | 80 268 | 78 277 | - 2.5 |
| Parry Sound District | 33 528 | 33 521 | 0.0 |
| Rainy River District | 22 798 | 22 726 | - 0.3 |
| Sudbury District | 27 068 | 25 568 | - 5.5 |
| Sudbury Regional Municipality | 159 779 | 151 552 | - 5.1 |
| Thunder Bay District | 153 997 | 154 449 | 0.3 |
| Timiskaming District | 41 288 | 39 956 | - 3.2 |
| Northern Ontario | 819 576 | 793 218 | - 3.2 |
| Southern Ontario | 7,805 531 | 8 249 215 | 5.7 |
| Ontario | 8,625 107 | 9 042 433 | 4.8 |

^a Interim estimate

Source: Statistics Canada, 1986 Census of Canada, interim population and dwelling counts.

Table 9.11. Population of selected northern Ontario communities, 1981 and 1986.

| Community | 1981 population | 1986 population ^a | Percentage change from 1981 to 1986 |
|-------------------|--------------------|---------------------------------|---|
| Atikokan | 4 452 | 4 287 | - 3.7 |
| Blind River | 3 444 | 3 506 | 1.8 |
| Dryden | 6 640 | 6 421 | - 3.3 |
| Dubreuilville | 988 | 953 | - 3.5 |
| Elliot Lake | 16 723 | 17 784 | 6.3 |
| Espanola | 5 836 | 5 464 | - 6.4 |
| Fort Frances | 8 837 | 8 801 | - 0.4 |
| Hearst | 5 533 | 5 513 | - 0.4 |
| Iroquois Falls | 6 339 | 6 146 | - 3.0 |
| Kapuskasing | 12 014 | 11 303 | - 5.9 |
| Kenora | 9 817 | 9 553 | - 2.7 |
| Kirkland Lake | 12 219 | 11 481 | - 6.0 |
| Marathon | 2 277 | 3 400 | 49.3 |
| New Liskeard | 5 551 | 5 259 | - 5.3 |
| Nipigon/Red Rock | 4 129 | 3 917 | - 5.1 |
| North Bay | 51 268 | 50 082 | - 2.3 |
| Sault Ste. Marie | 82 697 | 80 331 | - 2.9 |
| Sioux Lookout | 3 074 | 3 077 | 0.1 |
| Smooth Rock Falls | 2 352 | 2 193 | - 6.8 |
| Sturgeon Falls | 6 045 | 5 853 | - 3.2 |
| Sudbury | 91 829 | 88 117 | - 4.0 |
| Thessalon | 1 620 | 1 511 | - 6.7 |
| Thunder Bay | 112 486 | 111 362 | - 1.0 |
| Timmins | 46 114 | 46 282 | 0.4 |

^a Interim estimate

Source: Statistics Canada. 1986 Census of Canada, interim population and dwelling counts.

APPENDIX



Canadă



Forestry
Canada

Forêts
Canada

Selected Forestry Statistics, Ontario: 1989

K. L. Campbell, Compiler

Ontario Region
Miscellaneous Report No. 98

592 HARDWOOD 1 804 876 SOFTWOOD 9 400 38
RESIDUE 4 620 WOODCHIPS 22 170 676 TOTAL 56
1562 PULP METRIC TONNES 329
9 7031 84 1 740.3 NEWSPRI
RIO % CHANGE + 22.9 5
235 187 374 EXPORT
92 U.S.A. 11 247 U.
OARD IMPORT 472 3
147 569 24 BLEACHED 78 927 492 \$8
SECONDARY FIBER 4 25 2 SHIPMEN
59 225 PAPER PRODUCTS 33 59 8 965
LUMBER PRODUCTION 71.36 PINE 80147
324 498 527 BIRCH VENEER 312 375 TIMBER
PLYWOOD 10 596 009 REGENERATION 22 465.1

FORSTATS

FORESTRY CANADA, ONTARIO REGION

Ontario Region is one of six regional establishments located across Canada and operated by Forestry Canada. The overall objective of Forestry Canada is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. Ontario Region pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

Ontario Region specializes in research in forest production, forest protection, forest environment and forest utilization. These programs deal directly with the issue of maintaining and enhancing the resource supply. Activities range from basic to applied and developmental research, and include a significant technology transfer component.

Major activities in forestry development include federal management responsibility for federal-provincial forest management agreements, participation in the National Forestry Statistics program and forest economics research.

Close working relationships are maintained with the Ontario Ministry of Natural Resources, the forest industry, educational institutions specializing in forestry and the biological sciences, and other forestry organizations within the province. Ontario Region is represented on the Ontario Forestry Council and the Ontario Forestry Research Committee, which have responsibility for coordinating forestry research in Ontario.

It is recognized that forested land must be managed in the best public interest, not only for the wood production essential to our economy, but also for the recreational purposes that are so important to our social well-being. This must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

-15

S E L E C T E D F O R E S T R Y
S T A T I S T I C S , O N T A R I O : 1 9 8 9

K.L. CAMPBELL, COMPILER

FORESTRY CANADA
ONTARIO REGION
GREAT LAKES FORESTRY CENTRE
1990

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ABSTRACT

Selected Forestry Statistics, Ontario: 1989 contains ready references and valuable information for members of the forestry community and other interested individuals seeking quantitative data on Ontario's forest sector.

Included are statistics on forest management, the forest industry, commodity production and trade, principal statistics by industry group, price indices, financial data, and information on the Canada-Ontario Forest Resource Development Agreement and forest sector collective bargaining settlements.

RÉSUMÉ

Selected Forestry Statistics, Ontario: 1989 est un recueil d'information facile à consulter qui sera utile aux forestiers et aux autres personnes intéressées à obtenir des données quantitatives sur le secteur forestier en Ontario.

Il s'agit d'un recueil de statistiques concernant l'aménagement des forêts, l'industrie, la production et le commerce des produits forestiers, les statistiques principales de divers groupes composant l'industrie, les indices des prix, les données financières, et les renseignements sur l'Entente Canada-Ontario sur la mise en valeur de la ressource forestière et les conventions collectives.

ACKNOWLEDGMENTS

I wish to acknowledge my Forestry Canada colleague, Jack Smyth, of the Economics and Statistics Directorate in Ottawa, who was responsible for previous editions of Selected Forestry Statistics while he was employed by Forestry Canada, Ontario Region. This report is an update of Information Report 0-X-387, Selected Forestry Statistics, Ontario: 1987. Thanks are also extended to Sylvia Alanen of the Economics Section, Ontario Region for typing the tables.

FOREWORD

Forestry Canada's Forest Resource Data (FORSTATS) Program is responsible for the compilation and interpretation of national data on the forest resource and on changes to it resulting from both natural and human activities. Major components of the FORSTATS Program include statistics on forest inventory, forest depletions, forest growth, regeneration, forest management activities, forest management expenditures, and forest industrial activity, with a broad range of economic indicators.

Selected Forestry Statistics, Ontario: 1989 contains a series of tables on Ontario's forest industry, its forest resources and related management activities, depletion, commodity production and trade, employment statistics, principal statistics by industry group, and other related data that will be of interest to members of Ontario's forest community.

Over 60 tables are included in the report. Data have been extracted from a variety of provincial and federal government reports and from other sources. Numerous figures have been included to assist the reader in visualizing the data presented in tabular form.

The section that provides information on Ontario's forest resource contains a glossary of forest inventory terms to assist the reader in understanding and interpreting the information provided. A series of tables presents information based on the eight Ontario Ministry of Natural Resources' administrative regions. Readers who are not familiar with these regions should refer to the map provided in the Appendix.

TABLE OF CONTENTS

Page

SECTION I. FOREST INDUSTRY

| | | |
|------------|--------------------------------|----|
| Table 1.1. | Pulp and paper mills | 1 |
| Table 1.2. | Major sawmills | 7 |
| Table 1.3. | Panelboard industry | 10 |

SECTION II. FOREST INVENTORY

| | | |
|-------------|--|----|
| Glossary of | Inventory Terms | 15 |
| Table 2.1. | Area classification | 16 |
| Figure 1. | Area classification | 16 |
| Table 2.2. | Productive forest land, by ownership | 17 |
| Figure 2. | Productive forest land, by ownership | 17 |
| Table 2.3. | Gross total volume of productive forest, by ownership | 18 |
| Table 2.4. | Area and gross total volume of production forest, by ownership, OMNR administrative region and major forest type | 19 |
| Figure 3. | Gross total volume of production forest, by OMNR administrative region and major forest type | 20 |
| Figure 4. | Area of production forest, by OMNR administrative region and major forest type | 20 |
| Table 2.5. | Area and gross total volume of production forest and production forest reserve, by softwood working group | 21 |
| Table 2.6 | Area and gross total volume of production forest and production forest reserve, by hardwood working group | 21 |

SECTION III. FOREST DEPLETION

| | | |
|------------|---|----|
| Table 3.1. | Hardwood timber harvested on provincial crown lands, by species, 1976-1987 (m ³) | 25 |
| Table 3.2. | Softwood timber harvested on provincial crown lands, by species, 1976-1987 (m ³) | 26 |
| Table 3.3. | Area of land harvested, 1981-1987 (ha) | 27 |
| Table 3.4. | Losses attributable to forest fires, 1965- 1987 | 28 |
| Table 3.5. | Losses attributable to forest fires, by OMNR administrative region, 1973-1987 (ha) | 29 |

TABLE OF CONTENTS (cont'd)

Page

SECTION IV. FOREST MANAGEMENT

| | | |
|------------|--|----|
| Table 4.1. | Silvicultural operations on provincial crown lands, 1981-1988 (ha) | 33 |
| Table 4.2. | Silvicultural operations, by ownership, 1988 (ha) | 34 |
| Table 4.3. | Prescribed burning, by ownership type, 1978-1989 (ha) | 35 |
| Table 4.4. | Forest tree production by OMNR administrative region | 36 |
| Table 4.5. | Trees shipped, 1984, and planned production, 1985-1986, by province | 37 |
| Table 4.6. | Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, 1983, 1985, 1988 . . . | 38 |

SECTION V. COMMODITY PRODUCTION AND SHIPMENTS

| | | |
|-------------|--|----|
| Table 5.1. | Primary forest production, by product, all categories of ownership, 1973-1986 ('000m ³) . . | 41 |
| Table 5.2. | Pulpwood and wood residue consumption, 1971-1988 (m ³) | 42 |
| Table 5.3. | Pulpwood and wood residue consumption, by major region, 1974-1988 ('000 m ³) | 43 |
| Table 5.4. | Wood pulp production and consumption in Ontario and Canada, 1967-1986 | 44 |
| Table 5.5. | Production of pulp and paper mills, 1977-1987 ('000 tonnes) | 45 |
| Table 5.6. | Lumber production, by species, 1970-1987 ('000 m ³) | 46 |
| Table 5.7. | Lumber production in northern Ontario, by OMNR administrative region, 1978-1987 ('000 m ³) | 47 |
| Table 5.8. | Lumber production in southern Ontario, by OMNR administrative region, 1978-1987 ('000 m ³) | 48 |
| Table 5.9. | Wood chip production, by OMNR administrative region, 1977-1987 | 49 |
| Table 5.10. | Roundwood consumption by the sawmill industry, 1970-1984 | 50 |
| Table 5.11. | Shipments of roundwood, by product, 1969-1986 | 51 |
| Table 5.12. | Veneer and plywood production, 1977-1987 | 52 |
| Table 5.13. | Particleboard and waferboard production, 1977-1986 | 53 |

TABLE OF CONTENTS (cont'd)

Page

SECTION VI. COMMODITY TRADE

| | |
|---|----|
| Export/Import Notes | 57 |
| Table 6.1. Value of pulp, paper and paper products ex- ported from Ontario, 1987 | 58 |
| Table 6.2. Value of exports of sawn lumber, laden in Ontario, 1987 | 59 |
| Table 6.3. Value of veneer and plywood exports, laden in Ontario, 1987 | 60 |
| Table 6.4. Value of imports of major forest products, Ontario and Canada, 1987 | 61 |
| Table 6.5. Value of leading exports to the United States, 1987 | 62 |
| Figure 5. Value of leading exports to the United States, 1987 | 62 |
| Table 6.6. Value of exports and imports of major forest products, 1988 | 63 |

SECTION VII. PRINCIPAL STATISTICS

| | |
|--|----|
| Principal Statistics Notes | 67 |
| Table 7.1. Standard industrial classification of forest industries | 68 |
| Table 7.2. Principal statistics for the forest indus- try in Ontario, 1984, 1985, 1986 and 1987 . . . | 69 |
| Table 7.3. Principal statistics for logging in Ontario, 1970-1987 | 70 |
| Table 7.4. Principal statistics for wood industries in Ontario, 1970-1987 | 71 |
| Table 7.5. Principal statistics for sawmills and planing mills in Ontario, 1970-1987 | 72 |
| Table 7.6. Principal statistics for the veneer and plywood industry in Ontario, 1970-1987 | 73 |
| Table 7.7. Principal statistics for sash, door and other millwork industries in Ontario, 1970-1987 | 74 |
| Table 7.8. Principal statistics for the wooden box and pallet industry in Ontario, 1970-1987 | 75 |
| Table 7.9. Principal statistics for the coffin and casket industry in Ontario, 1970-1987 | 76 |
| Table 7.10. Principal statistics for other wood indus- tries in Ontario, 1970-1987 | 77 |
| Table 7.11. Principal statistics for paper and allied industries in Ontario, 1970-1987 | 78 |
| Table 7.12. Principal statistics for pulp and paper industries in Ontario, 1970-1987 | 79 |
| Table 7.13. Principal statistics for asphalt roofing manufacturers in Ontario, 1970-1987 | 80 |
| Table 7.14. Principal statistics for paper, box and bag manufacturers in Ontario, 1970-1987 | 81 |

TABLE OF CONTENTS (cont'd)

| | Page |
|---|------|
| Table 7.15. Principal statistics for other converted paper products in Ontario, 1970-1987 | 82 |
| Table 7.16. Principal statistics for all manufacturing industries in Ontario, 1970-1986 | 83 |
| Table 7.17. Principal statistics, for major manufacturing industries in Ontario, 1986 | 84 |

SECTION VIII. EMPLOYMENT AND EARNINGS

| | |
|---|----|
| Table 8.1. Employment in the forest industry, by industry group, Ontario, 1970-1987 | 87 |
| Table 8.2. Estimated weekly earnings in the Ontario forest sector, 1986 to 1989 (\$) | 88 |
| Figure 6. Average weekly earnings in Ontario's forest sector, 1986 to 1989 | 89 |
| Figure 7. Employment in Ontario's forest industry, by industry group, 1970-1987 | 89 |
| Table 8.3. Estimated number of employees, by forest sector, in Ontario, 1986-1989 (monthly) | 90 |
| Table 8.4. Ontario forest sector collective bargaining agreements expiring in 1989 | 91 |
| Table 8.5. Ontario forest industry collective bargaining agreements expiring in 1989 and 1990, by company | 92 |

SECTION IX. MISCELLANEOUS RELATED DATA

| | |
|--|-----|
| Table 9.1. Summary of forest management agreements | 95 |
| Table 9.2. Canada-Ontario Forest Resource Development Agreement | 99 |
| Table 9.3. Canada-Ontario Forest Resource Development Agreement, actual fiscal expenditures, 1984-1985 to 1988-1989 (\$'000) | 100 |
| Table 9.4. Summary of capital and repair expenditures in the forest industry in Ontario and Canada, 1970-1989 (\$ '000,000) | 102 |
| Figure 8. Forest industry capital and repair expenditures in Ontario, 1970-1989 | 103 |
| Figure 9. Forest industry capital and repair expenditures in Ontario and Canada, 1970-1989 | 103 |
| Table 9.5. Corporate taxable income in the forest sector in Canada and Ontario, 1974-1987 (\$'000) | 104 |
| Table 9.6. Price indices for selected pulp and paper commodities, 1981-1989 | 105 |
| Figure 10. Price indices for selected pulp and paper commodities, 1981-1989 | 105 |

TABLE OF CONTENTS (concl.)

| | Page |
|---|------|
| Table 9.7. Selected forest industry selling price indices in Canada, 1981-1988 | 106 |
| Figure 11. Selected forest industry selling price indices in Canada, 1981-1989 | 106 |
| Table 9.8. Industry price indices for selected forest products, 1981-1989 | 107 |
| Table 9.9. Summary of housing starts, by region, 1975-1989 | 108 |
| Figure 12. Housing starts in Canada and Ontario, 1975-1989 | 108 |
| Table 9.10. Population by selected northern Ontario census divisions, 1981 and 1986 | 109 |
| Table 9.11. Population of selected northern Ontario communities, 1981 and 1986 | 110 |

APPENDIX

SECTION I

FOREST INDUSTRY

Table 1.1. Pulp and paper mills.

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|--|---|--|
| 1. Abitibi-Price Inc. Fort William Division P.O. Box 160 Thunder Bay, P7B 4V8 807-623-7300 | Olympia & York Developments Ltd. (Toronto) | newsprint 150,000 t/y |
| 2. Abitibi-Price Inc. P.O. Box 550 Iroquois Falls, POK 1E0 705-258-3931 | Olympia & York Developments Ltd. (Toronto) | newsprint 302,000 t/y |
| 3. Abitibi-Price Inc. Thunder Bay Division P.O. Box 2390 Thunder Bay, P7B 5E9 807-688-6235 | Olympia & York Developments Ltd. (Toronto) | newsprint 156,000 t/y |
| 4. Abitibi-Price Inc. Port Arthur Division P.O. Box 2450 Thunder Bay, P7B 5E9 807-683-2110 | Olympia & York Developments Ltd. (Toronto) | fine papers 126,000 t/y |
| 5. Atlantic Packaging Products Ltd. 11 Progress Ave. Scarborough, M1P 2Y9 416-298-8101 | Granovsky family (Toronto) | paper/board 127,000 t/y tissue 21,900 t/y |
| 6. Beaver Wood Fibre Company Ltd. Thorold, L2V 3Z8 416-227-6651 | Georgia Pacific International Corporation (Atlanta, Georgia) | boxboard, chipboard, stock 100,000 t/y |

(cont'd)

Table 1.1. Pulp and paper mills, (cont'd)

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|---|---|--|
| 7. Boise Cascade Canada Ltd. 145 Third Street W. Fort Frances, P9A 3N2 807-274-5311 | Boise Cascade Corp. (Boise, Idaho) | bleached kraft pulp 219,000 t/y groundwood specialty paper 281,000 t/y |
| 8. Boise Cascade Canada Ltd. P.O. Box 5000 Kenora, P9N 3Y1 807-468-6411 | Boise Cascade Corp. (Boise, Idaho) | paper 347,000 t/y |
| 9. Canadian Pacific Forest Products Ltd. Duke Street Dryden, P8N 2Z7 807-223-2323 | Canadian Pacific Forest Products Ltd. (Calgary, Alberta) | fine paper 285,000 t/y bleached kraft pulp 250,000 t/y |
| 10. Canadian Pacific Forest Products Ltd. P.O. Box 430 Thunder Bay, P7C 4W3 807-475-2110 | Canadian Pacific Forest Products Ltd. (Calgary, Alberta) | bleached kraft pulp 460,000 t/y newsprint 415,000 t/y |
| 11. Canadian Pacific Forest Products Ltd. Container Division: | | |
| 747 Appleby Line Burlington, L7L 2Y6 416-849-6616 | | corrugated paper products and shipping containers |
| 575 Paul Mall Street London, N5Y 2Z8 519-434-1173 | | corrugated paper products and shipping containers |
| 200 Bullock Drive Markham, L3P 1W2 416-294-9080 | | corrugated paper products and shipping containers |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|---|---|---|
| 12. Dominion Cellulose Ltd. 1551 Weston Road Toronto, M6M 4Y4 416-243-3011 | Canadian Pacific Forest Products Ltd. | tissues 96,000 t/y |
| 13. Domtar Inc. 800 Second Street W. Cornwall, K6H 5S3 613-932-6620 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | bleached kraft pulp 164,000 t/y fine papers paperboard 301,000 t/y |
| 14. Domtar Inc. Red Rock, POT 2P0 807-886-2211 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | newsprint 73,000 t/y linerboard 255,500 t/y unbleached kraft 255,500 t/y groundwood 73,000 t/y |
| 15. Domtar Inc. 343 Glendale Ave. St. Catharines, L2T 2L9 416-227-3731 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | Bristols, files, various papers 73,000 t/y |
| 16. Domtar Inc. 7447 Bramalea Road Mississauga, L5S 1C4 416-671-2940 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | linerboard 96,000 t/y |
| 17. Domtar Inc. P.O. Box 807 Trenton, K8V 5R8 613-392-6505 | La Caisse de Dépôt et Placement du Québec & DOFOR (Montreal, Quebec) | semichemical pulp 55,000 t/y corrugating medium 120,000 t/y |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|--|---|--|
| 18. E.B. Eddy Forest Products Ltd. Espanola, POP 1C0 705-869-2020 | Eddy Paper Company (Ottawa, Ontario) | bleached kraft pulp 348,000 t/y fine and specialty paper 58,000 t/y |
| 19. Fraser Inc. P.O. Box 1046 Thorold, L2V 3Z7 416-227-5271 | Noranda Inc. (Toronto, Ontario) | fine papers 102,000 t/y |
| 20. James River-Marathon Inc. Marathon, POT 2E0 807-229-1200 | James River Corp. (Richmond, Virginia) | bleached kraft pulp 182,500 t/y |
| 21. Kimberly-Clark of Canada Ltd. P.O. Box 790 Huntsville, POA 1K0 705-789-4487 | Kimberly-Clark Corp. (Neenah, Wisconsin) | tissues, specialty papers 84,000 t/y |
| 22. Kimberly-Clark of Canada Ltd. St. Catharines, L2T 2L9 416-227-1161 | Kimberly-Clark Corp. (Neenah, Wisconsin) | included in above |
| 23. Kimberly-Clark of Canada Ltd. Terrace Bay, POT 2W0 807-825-3211 | Kimberly-Clark Corp. (Neenah, Wisconsin) | bleached sulphate pulp 385,000 t/y |
| 24. MacMillan Bloedel Ltd. Sturgeon Falls, POH 2G0 705-753-2170 | Noranda Inc. (Toronto, Ontario) | corrugating medium 77,504 t/y |
| 25. Malette Kraft Pulp and Paper Division Smooth Rock Falls, POL 2B0 705-338-4910 | Waferboard Corp. | bleached kraft pulp 109,000 t/y |

(cont'd)

Table 1.1. Pulp and paper mills (cont'd).

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|--|---|---|
| 26. Nordfibre Co. Box 910 North Bay, P1B 8K1 705-474-2300 | Frank Orsi family | insulating board 43,800 t/y |
| 27. Paperboard Industries Corp. 495 Commissioners Road Toronto, M4M 1A5 416-461-8261 | n/a | boxboard, clay coated, bottle carrier boards 118,000 t/y |
| 28. Paperboard Industries Corp. P.O. Box 821 Trenton, K8V 5R8 613-392-1231 | n/a | boxboards, fibreboard, chipboard 109,000 t/y |
| 29. Quebec and Ontario Paper Co. Box 1040 Thorold, L2V 3Z5 416-227-1121 | Tribune Company (Chicago, Illinois) | paper 320,000 t/y |
| 30. Sonoco Ltd. 33 Park Avenue E. Box 1208 Brantford, N3T 5T5 519-752-6591 | Sonoco Products Co. (South Carolina) | paper/board 55,000 t/y |
| 31. Spruce Falls Power & Paper Co. Ltd. P.O. Box 100 Kapuskasing, P5N 2Y2 705-337-1311 | Kimberly-Clark Corp. (Neenah, Wisconsin) New York Times (New York, New York) | newsprint 365,000 t/y groundwood and TMP 398,000 t/y |
| 32. Strathcona Paper Company P.O. Box 130 Napanee, K7R 3L6 613-378-6672 | Roman Corp. Ltd. (Toronto, Ontario) | boxboard 64,000 t/y |

(cont'd)

Table 1.1. Pulp and Paper Mills (concl.)

| Company | Controlling ownership | Products manufactured and approximate capacity (tonnes/year) |
|---|--|---|
| 33. St. Marys Paper Inc. 75 Huron Street Sault Ste. Marie, P6A 5P4 705-942-6070 | Northam Inc. Shieldings Investments Ltd. Nordic American Banking Corp. | supercalendered, groundwood, printing and specialty papers 273,000 t/y |

Sources: Anon. 1990. Pulp and Paper Canada Annual and Directory. Southam Business Publications. Westmount, Que. 295 p.

Anon. 1989. Directory 89. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 117 p.

Andersen, S., and Brownwright, A.J. 1985. Ontario pulp and paper industry: corporate ownership. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Misc. Rep. No. 31. 108 p.

Table 1.2. Major sawmills.^a

| Company | Products manufactured |
|--|---|
| 1. A & L Lafreniere Lumber Ltd. P.O. Box 340 Chapleau, POM 1K0 705-864-1060 | dimension lumber |
| 2. Canadian Pacific Forest Products Ltd. Box 3001 Dryden, P8N 2Z7 807-223-2323 | 2 x 4 studs |
| 3. Canadian Pacific Forest Products Ltd. Box 430 Thunder Bay, P7C 4W3 807-475-2110 | 2 x 4 studs |
| 4. Consolidated Bathurst Inc. Braeside, KOA 1G0 613-623-4211 | dimension lumber |
| 5. Custom Sawmill (Hearst) Ltd. Box 460 Hearst, POL 1N0 705-362-4217 | dimension lumber |
| 6. Domtar Inc. Box 2000 White River, POM 3G0 807-822-2100 | dimension lumber |
| 7. Dubreuil Brothers Ltd. Pine St. Dubreuilville, POS 1B0 705-884-2525 | dimension lumber |
| 8. E.B. Eddy Forest Products Ltd. Ontario Wood Products Division Nairn Centre, POM 2L0 705-869-4020 | dimension lumber, studs, mining timber |
| 9. E.B. Eddy Forest Products Ltd. McChesney Lumber Division P.O. Box 150 Timmins, P4N 7C9 705-264-2244 | dimension lumber, squares, studs |

(cont'd)

Table 1.2. Major sawmills^a (cont'd).

| Company | Products manufactured |
|---|--------------------------------------|
| 10. Elk Lake Planing Mill Ltd. Box 9 Elk Lake, P0J 1G0 705-678-2110 | dimension lumber |
| 11. Great West Timber Ltd. Box 3170 Thunder Bay, P7C 4W3 807-344-8464 | dimension lumber |
| 12. Lecours Lumber Co. Ltd. P.O. Box 9000 Hearst, P0L 1N0 705-362-4369 | dimension lumber |
| 13. Malette Inc. Box 1090 Timmins, P4N 7S3 705-268-1462 | dimension lumber |
| 14. J.E. Martell & Sons Lumber Ltd. Box 758 Chapleau, P0M 1K0 705-864-0870 | dimension lumber |
| 15. McKenzie Forest Products Inc. Box 190 Hudson, P0V 1X0 807-582-3271 | 2 x 4 studs |
| 16. Murray Brothers Lumber Co. Ltd. Barry's Bay, K0J 1B0 613-637-2840 | dimension lumber, chips, shavings |
| 17. Normick Perron Inc. Box 1059 Cochrane, P0L 1C0 705-272-4321 | 2 x 4 studs dimension lumber |
| 18. Normick Perron Inc. Box 1120 Kirkland Lake, P2N 3M7 705-642-3216 | 2 x 4 and 2 x 3 studs |

(cont'd)

Table 1.2. Major sawmills^a (concl.).

| Company | Products manufactured |
|---|----------------------------------|
| 19. Northern Wood Preservers Inc. Box 2990 Thunder Bay, P7B 5G5 807-344-8451 | dimension lumber, ties, poles |
| 20. United Sawmill Ltd. Box 880 Hearst, P0L 1N0 705-362-4227 | dimension lumber |

^a major (1988) producers - all producing over 236 m³ (100,000 board feet) per 8-hour shift

Sources: Anon. 1989. Ontario forest industry statistical reports for 1988. Ont. Min. Nat. Resour., Toronto, Ont. 60 p.

Anon. 1989. Directory 1989. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 120 p.

Anon. 1988. Primary wood-using industries in Ontario, 1988. Ont. Min. Nat. Resour., Toronto, Ont. 134 p.

Table 1.3. Panelboard industry.

| Company | Products manufactured |
|---|------------------------------|
| Veneer and plywood producers | |
| 1. Birchland Veneer Ltd. Box 430 Thessalon, POR 1L0 705-842-2430 | veneer |
| 2. Canada Veneers Ltd. Box 460 Pembroke, K8A 6X7 613-735-6801 | veneer |
| 3. Columbia Forest Products Rutherford, POH 2E0 705-776-2948 | veneer |
| 4. Interforest Ltd. Box 170 Durham, NOG 1R0 519-369-3310 | veneer |
| 5. Lajambe Forest Products Ltd. (formerly G.W. Martin) 45 Third Line West Sault Ste. Marie, P6A 5P7 705-759-1500 | veneer |
| 6. Levesque Plywood Ltd. Box 10 Hearst, POL 1N0 705-362-4242 | plywood, industrial grade |
| 7. MacMillan Bloedel Ltd. Box 910 Nipigon, POT 2J0 807-887-2018 | 1/4-in. plywood |
| 8. Normick Perron Inc. Box 1059 Cochrane, POL 1C0 705-272-4321 | 1/4-in. hardwood plywood |

(cont'd)

Table 1.3. **Panelboard industry** (cont'd).

| Company | Products manufactured |
|---|---|
| <u>Veneer and plywood producers</u> (cont'd) | |
| 9. Pannill Veneer Co. Ltd. 340 Louisa St. Kitchener, N2H 5N2 519-742-5887 | veneer |
| 10. Superior Hardwood Veneer Ltd. R.R. #4, Gran Street Sault Ste. Marie, P6A 5K9 705-759-0904 | 1/16-in. hardwood specialty veneers for furniture and sporting goods |
| 11. Weldwood of Canada Ltd. Longlac, POT 2A0 807-876-2796 | 3/8-in. furniture grade plywood |
| 12. Wilberforce Veneer and Lumber Company Box 130 Wilberforce, KOL 3C0 705-448-2520 | veneer |
| <u>Particleboard producers</u> | |
| 1. Domtar Inc. Box 7500 Huntsville, POA 1K0 705-789-9683 | particleboard |
| 2. Levesque Plywood Ltd. Box 10 Hearst, POL 1N0 705-362-4242 | particleboard for furniture |
| 3. Proboard Ltd. Box 1600 Atikokan, POT 1C0 807-597-6921 | 1/8-in. particleboard |
| 4. Rexwood Products Ltd. Box 1840 New Liskeard, POJ 1P0 705-647-6775 | particleboard for furniture, roundwood |

(cont'd)

Table 1.3. Panelboard industry (concl.).

| Company | Products manufactured |
|--|-------------------------------------|
| <u>Particleboard producers</u> (cont'd) | |
| 5. Malette Inc. Box 1100 Timmins, P4N 7J3 705-268-1462 | particleboard |
| <u>Waferboard producers</u> | |
| 1. Grant Waferboard Ltd. Box 960 Englehart, POJ 1H0 705-544-2204 | waferboard oriented strand board |
| 2. Malette Inc. (Waferboard, Timmins) Box 1100 Timmins, P4N 7H9 705-268-1462 | waferboard |
| 3. Weldwood of Canada Ltd. Longlac, POT 2A0 807-876-2796 | 3/8-in. waferboard |

Sources: Anon. 1989. Ontario forest industry statistical reports for 1988. Ont. Min. Nat. Resour., Toronto, Ont. 65 p.

Anon. 1989. Directory 1989. Northern Ontario Business. Laurentian Publishing Ltd., Sudbury, Ont. 120 p.

SECTION II

FOREST INVENTORY

Glossary of inventory terms^a.

Forest Inventory

A survey of an area to determine such data as area, condition, timber, volume and species, for specific purposes such as planning, purchasing, evaluating, managing, or harvesting.

Gross Merchantable Volume

Volume of the main stem of trees or stands, excluding stump and top but including defective and decayed wood.

Gross Total Volume

Volume of the main stem of trees or stands, including stump and top as well as defective and decayed wood.

Production Forest

All productive forest land managed primarily for growing timber for industry, unless otherwise reassigned.

Production Forest Reserve

Production forest stands which in the opinion of photo interpreters may constitute a logging or silvicultural problem.

Productive Forest Land

All forest areas capable of growing commercial timber.

Protection Forest

All productive forest land managed primarily to exert beneficial influence on soil, water, and the overall landscape.

Volume

The amount of wood in a tree, stand, or other specified area, according to some unit of measurement or some standard of use.

Working Group

An aggregate of stands, including potential forest areas assigned to this category, having the same predominant species, and managed under the same rotation and broad silvicultural system.

^a Source: Anon. 1986. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.1. Area classification.

| | Provincial crown (ha) | Patent (ha) | Federal (ha) | Total (ha) |
|----------------|-----------------------------|----------------|-----------------|---------------|
| Water | 8 065 218 | 2 395 | 416 034 | 8 483 647 |
| Non-forested | 212 063 | 6 457 475 | 305 010 | 6 974 548 |
| Non-productive | 4 990 732 | 647 358 | 542 919 | 6 181 009 |
| Productive | 33 646 186 | 5 898 224 | 383 109 | 39 927 519 |
| Total | 46 914 199 | 13 005 452 | 1 647 072 | 61 566 723 |

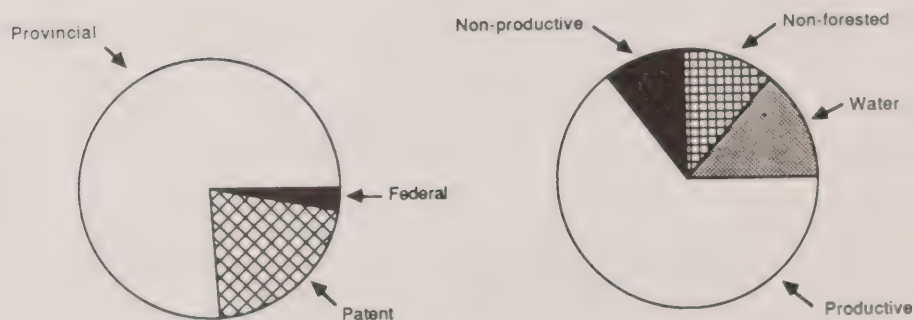


Figure 1. Area classification.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 100 p.

Table 2.2. Productive forest land, by ownership.

| | Provincial crown (ha) | Patent (ha) | Federal (ha) | Total (ha) |
|------------------------------|-----------------------------|----------------|-----------------|---------------|
| Protection forest | 1 917 874 | 237 860 | 39 371 | 2 195 105 |
| Production forest reserve | 2 146 166 | 252 569 | 26 603 | 2 425 338 |
| Production forest | 29 582 146 | 5 407 795 | 317 135 | 35 307 076 |
| Total | 33 646 186 | 5 898 224 | 383 109 | 39 927 519 |

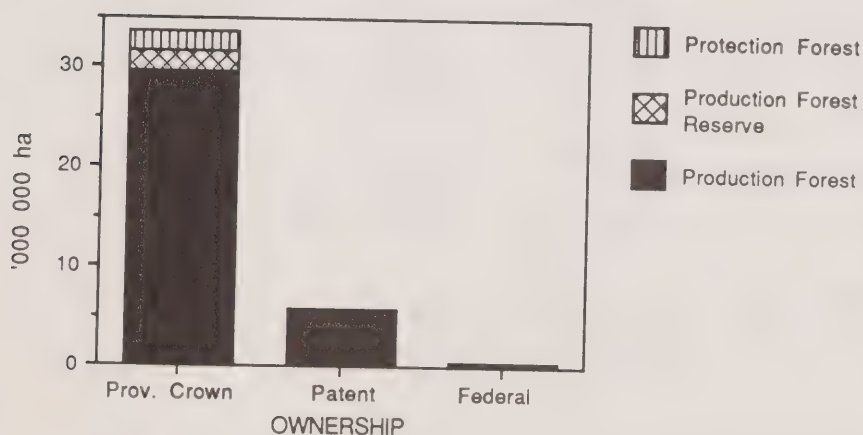


Figure 2. Productive forest land, by ownership.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.3. Gross total volume of productive forest, by ownership.

| Ownership | Production forest reserve (m ³) | Production forest (m ³) | Total (m ³) |
|--------------------------------------|--|---|----------------------------|
| Provincial crown | 235 368 370 | 3 940 920 216 | 4 176 288 586 |
| Recreation reserve | 3 528 253 | 23 733 663 | 27 261 916 |
| Provincial park | 9 006 421 | 180 221 424 | 189 227 845 |
| Sub-total provincial crown | 247 903 044 | 4 144 875 303 | 4 392 778 347 |
| Patent | 24 301 207 | 631 876 039 | 656 167 246 |
| Agreement forest | 398 286 | 10 444 756 | 10 843 042 |
| Sub-total patent | 24 699 493 | 642 320 795 | 667 020 288 |
| Indian reserve | 3 296 009 | 17 059 031 | 20 355 040 |
| Other federal | 40 830 | 22 647 774 | 22 688 604 |
| Sub-total federal crown | 3 336 839 | 39 706 805 | 43 043 644 |
| Total | 275 939 376 | 4 826 902 903 | 5 102 842 279 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.4. Area and gross total volume of production forest, by ownership, OMNR administrative region and major forest type.

| Region/ownership | Softwoods | | | Intolerant hardwoods | | | Tolerant hardwoods | | | Total | |
|----------------------|--------------|-----------------------------|--|----------------------|-----------------------------|--|--------------------|-----------------------------|--|--------------|-----------------------------|
| | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) | | Area (ha) | Volume (m ³) |
| Northwestern | | | | | | | | | | | |
| Provincial | 8 233 007 | 1 041 778 413 | | 1 191 945 | 212 849 147 | | 10 706 | 1 249 732 | | 9 435 658 | 1 255 877 292 |
| Patent | 116 704 | 12 496 231 | | 138 222 | 18 978 099 | | 8 247 | 749 896 | | 263 173 | 32 224 226 |
| Federal | 58 062 | 7 351 025 | | 39 926 | 6 788 479 | | 2 411 | 349 749 | | 100 399 | 14 489 253 |
| Total | 8 407 773 | 1 061 625 669 | | 1 370 093 | 238 615 725 | | 21 364 | 2 349 377 | | 9 799 230 | 1 302 590 771 |
| North Central | | | | | | | | | | | |
| Provincial | 5 457 543 | 710 517 783 | | 1 893 167 | 311 095 188 | | 1 630 | 183 768 | | 7 352 340 | 1 021 796 739 |
| Patent | 189 382 | 22 403 652 | | 231 416 | 33 367 226 | | 1 081 | 117 372 | | 421 879 | 55 888 250 |
| Federal | 8 742 | 1 163 355 | | 7 946 | 1 507 720 | | 374 | 47 299 | | 17 062 | 2 718 374 |
| Total | 5 655 667 | 734 084 790 | | 2 132 529 | 345 970 134 | | 3 085 | 348 439 | | 7 791 281 | 1 080 403 363 |
| Northern | | | | | | | | | | | |
| Provincial | 6 508 523 | 862 670 587 | | 2 138 431 | 336 183 769 | | 27 664 | 3 751 980 | | 8 674 618 | 1 202 606 336 |
| Patent | 398 205 | 44 956 083 | | 266 667 | 34 390 691 | | 7 | 654 | | 664 879 | 79 347 428 |
| Federal | 3 721 | 340 303 | | 1 575 | 182 531 | | 0 | 0 | | 5 296 | 522 834 |
| Total | 6 910 449 | 907 966 973 | | 2 406 673 | 370 756 991 | | 27 671 | 3 752 634 | | 9 344 793 | 1 282 476 598 |
| Northeastern | | | | | | | | | | | |
| Provincial | 2 072 563 | 290 864 360 | | 1 738 898 | 239 814 682 | | 702 283 | 111 456 400 | | 4 513 744 | 642 135 442 |
| Patent | 384 706 | 42 880 905 | | 437 673 | 50 574 833 | | 282 432 | 44 848 895 | | 1 104 811 | 138 304 633 |
| Federal | 69 045 | 9 160 008 | | 125 978 | 12 337 805 | | 14 264 | 2 506 738 | | 209 287 | 24 004 551 |
| Total | 2 526 314 | 342 905 273 | | 2 302 549 | 302 727 320 | | 998 979 | 158 812 033 | | 5 827 842 | 804 444 626 |
| Algonquin | | | | | | | | | | | |
| Provincial | 436 993 | 71 053 264 | | 345 390 | 53 961 248 | | 688 206 | 106 424 248 | | 1 470 589 | 231 438 760 |
| Patent | 235 899 | 30 808 073 | | 180 308 | 25 596 034 | | 619 873 | 91 671 571 | | 1 036 080 | 148 075 678 |
| Federal | 18 | 848 | | 7 | 1 579 | | 0 | 0 | | 25 | 2 427 |
| Total | 672 910 | 101 862 185 | | 525 705 | 79 558 861 | | 1 308 079 | 198 095 819 | | 2 506 694 | 379 516 865 |
| Eastern | | | | | | | | | | | |
| Provincial | 54 782 | 10 448 581 | | 38 328 | 6 393 063 | | 131 380 | 15 038 659 | | 224 490 | 31 880 303 |
| Patent | 287 252 | 27 955 207 | | 101 293 | 11 545 460 | | 551 053 | 50 160 425 | | 939 598 | 89 661 092 |
| Federal | 521 | 41 881 | | 301 | 26 328 | | 1 013 | 72 870 | | 1 835 | 141 079 |
| Total | 342 555 | 38 445 669 | | 139 922 | 17 964 851 | | 683 446 | 65 271 954 | | 1 165 923 | 121 682 474 |
| Central | | | | | | | | | | | |
| Provincial | 8 936 | 1 233 475 | | 6 285 | 1 019 962 | | 21 711 | 2 260 042 | | 36 932 | 4 513 479 |
| Patent | 248 276 | 21 806 942 | | 117 206 | 14 024 421 | | 295 589 | 30 399 183 | | 661 071 | 66 230 546 |
| Federal | 2 427 | 323 055 | | 3 417 | 584 845 | | 2 476 | 231 009 | | 8 322 | 1 138 909 |
| Total | 259 639 | 23 363 472 | | 126 908 | 15 629 228 | | 319 778 | 32 890 234 | | 706 325 | 71 882 934 |
| Southwestern | | | | | | | | | | | |
| Provincial | 7 963 | 1 073 081 | | 3 569 | 500 295 | | 8 409 | 956 620 | | 19 941 | 2 529 996 |
| Patent | 126 980 | 13 642 284 | | 44 021 | 5 446 642 | | 397 872 | 38 199 509 | | 568 873 | 57 288 435 |
| Federal | 0 | 0 | | 1 456 | 24 779 | | 56 | 1 438 | | 1 512 | 26 217 |
| Total | 134 943 | 14 715 365 | | 49 046 | 5 971 716 | | 406 337 | 39 157 567 | | 590 326 | 59 844 648 |
| Totals | | | | | | | | | | | |
| Provincial | 22 780 310 | 2 989 639 544 | | 7 356 013 | 1 161 817 734 | | 1 591 989 | 241 321 449 | | 31 728 312 | 4 392 778 347 |
| Patent | 1 987 404 | 216 949 377 | | 1 516 806 | 193 923 406 | | 2 156 154 | 256 147 505 | | 5 660 364 | 667 020 288 |
| Federal | 142 536 | 18 380 475 | | 180 606 | 21 454 066 | | 20 596 | 3 209 103 | | 343 738 | 43 043 644 |
| Total | 24 910 250 | 3 224 969 396 | | 9 053 425 | 1 377 194 826 | | 3 768 739 | 500 678 057 | | 37 732 414 | 5 102 842 279 |

Source: Anon. The forest resources of Ontario, 1986.

Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

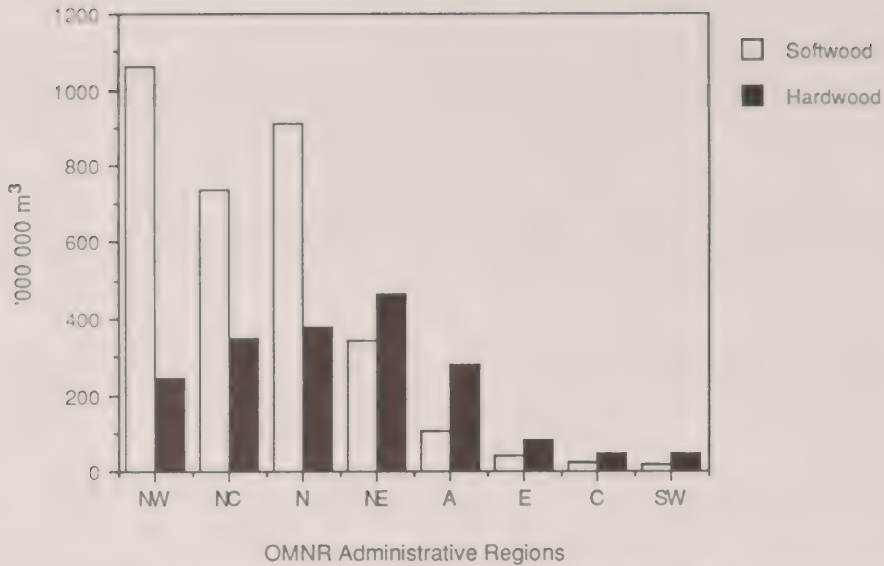


Figure 3. Gross total volume of production forest, by OMNR administrative region and major forest type.

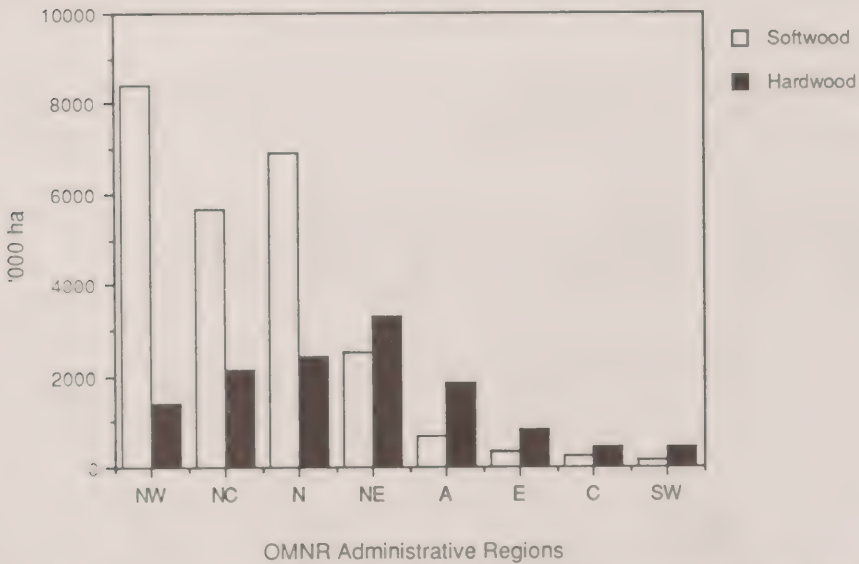


Figure 4. Area of production forest, by OMNR administrative region and major forest type.

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.5. Area and gross total volume of production forest and production forest reserve, by softwood working group.

| Working group | Area (ha) | Volume (m ³) |
|-----------------|--------------|-----------------------------|
| White pine | 659 306 | 111 712 876 |
| Red pine | 182 922 | 22 157 550 |
| Jack pine | 4 986 753 | 652 977 372 |
| Spruce | 15 784 074 | 2 048 820 819 |
| Balsam fir | 2 150 235 | 248 574 878 |
| Hemlock | 125 191 | 22 556 663 |
| Other softwoods | 1 021 769 | 118 169 244 |
| Total softwoods | 24 910 250 | 3 224 969 402 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

Table 2.6. Area and gross total volume of production forest and production forest reserve, by hardwood working group.

| Working group | Area (ha) | Volume (m ³) |
|-----------------|--------------|-----------------------------|
| Poplar | 5 787 146 | 1 011 200 056 |
| White birch | 3 266 279 | 365 994 785 |
| Hard maple | 2 760 745 | 384 927 399 |
| Yellow birch | 188 109 | 32 193 980 |
| Other hardwoods | 819 885 | 83 556 673 |
| Total hardwoods | 12 822 164 | 1 877 872 893 |

Source: Anon. The forest resources of Ontario, 1986. Ont. Min. Nat. Resour., Toronto, Ont. 110 p.

SECTION III

FOREST DEPLETION

Table 3.1. Hardwood timber harvested on provincial crown lands, by species, 1976-1987 (m³).

| Year ^a | Ash | Basswood | Beech | White birch | Yellow birch | Butter- nut | Cherry | Elm | Maple | Oak | Poplar | Mixed | Total ^b |
|-------------------|-------|----------|--------|----------------|-----------------|----------------|--------|-------|---------|--------|-----------|---------|--------------------|
| 1976 | 1 076 | 6 485 | 9 854 | 61 504 | 123 320 | c | 736 | 1 614 | 221 466 | 7 504 | 687 164 | 109 161 | 1 229 884 |
| 1977 | 1 274 | 6 088 | 12 856 | 63 939 | 122 838 | c | 595 | 878 | 258 844 | 6 456 | 792 672 | 323 633 | 1 590 073 |
| 1978 | 1 303 | 7 759 | 14 696 | 66 290 | 111 115 | c | 821 | 623 | 241 344 | 8 920 | 1 059 586 | 452 984 | 1 965 497 |
| 1979 | 1 864 | 12 009 | 26 846 | 86 832 | 121 078 | 28 | 1 235 | 297 | 292 783 | 12 194 | 1 439 082 | 642 203 | 2 636 451 |
| 1980 | 2 494 | 13 897 | 23 453 | 96 526 | 121 990 | 14 | 1 243 | 306 | 270 417 | 14 362 | 1 509 922 | 677 854 | 2 732 479 |
| 1981 | 1 519 | 9 069 | 15 737 | 62 557 | 90 478 | 16 | 634 | 111 | 178 833 | 10 845 | 1 414 955 | 633 769 | 2 418 525 |
| 1982 | 2 021 | 11 042 | 19 581 | 77 523 | 105 982 | 16 | 1 373 | 39 | 219 345 | 11 389 | 1 800 431 | 647 366 | 2 896 121 |
| 1983 | 1 558 | 7 769 | 18 377 | 93 562 | 78 058 | 36 | 1 584 | 165 | 164 317 | 10 415 | 1 505 038 | 648 316 | 2 529 198 |
| 1984 | 1 516 | 8 544 | 17 999 | 83 668 | 94 616 | 21 | 2 046 | 35 | 204 384 | 14 190 | 2 243 088 | 743 663 | 3 413 771 |
| 1985 | 3 770 | 27 777 | 32 996 | 180 990 | 106 382 | 38 | 2 269 | 19 | 447 911 | 13 960 | 2 641 390 | 852 633 | 4 310 135 |
| 1986 | 1 956 | 12 099 | 39 951 | 253 340 | 109 828 | 43 | 1 830 | 18 | 364 855 | 23 937 | 2 768 308 | 257 607 | 3 833 773 |
| 1987 | 2 337 | 13 312 | 30 258 | 271 154 | 104 686 | 20 | 2 022 | 98 | 382 522 | 20 242 | 2 557 055 | 725 170 | 4 108 878 |

^a In year ending 31 March

^b Totals may not be precise because of rounding.

^c No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.2. Softwood timber harvested on provincial crown lands, by species, 1976-1987 (m³).

| Year ^a | Balsam | Cedar | Hemlock | Jack pine | Red pine | Scots pine | White pine | Spruce | Tamarack | Mixed | Total ^b |
|-------------------|-----------|--------|---------|-----------|----------|------------|------------|-----------|----------|--------|--------------------|
| 1976 | 273 002 | 14 725 | 47 091 | 2 726 398 | 202 720 | 85 | 446 754 | 4 299 283 | 2 152 | 19 369 | 8 031 607 |
| 1977 | 418 522 | 11 327 | 53 434 | 3 823 306 | 144 444 | c | 492 627 | 6 586 516 | 2 832 | 2 237 | 11 535 216 |
| 1978 | 529 184 | 12 289 | 58 049 | 5 010 884 | 174 205 | c | 586 894 | 7 511 569 | 1 926 | 7 079 | 13 892 165 |
| 1979 | 602 451 | 16 863 | 79 471 | 5 507 057 | 157 209 | c | 533 606 | 8 193 427 | 2 321 | 36 527 | 15 128 932 |
| 1980 | 662 803 | 22 886 | 64 167 | 6 207 462 | 192 051 | c | 607 311 | 8 901 496 | 4 622 | 9 970 | 16 672 766 |
| 1981 | 926 677 | 13 972 | 59 109 | 5 927 897 | 187 494 | c | 495 271 | 8 692 652 | 5 658 | 10 017 | 16 318 746 |
| 1982 | 718 975 | 13 659 | 63 504 | 5 362 713 | 183 663 | c | 529 159 | 7 724 772 | 2 330 | 18 503 | 14 617 179 |
| 1983 | 586 883 | 17 195 | 47 361 | 4 135 200 | 168 759 | c | 563 024 | 6 707 133 | 1 168 | 30 599 | 12 257 322 |
| 1984 | 638 428 | 18 667 | 65 111 | 5 182 626 | 193 575 | c | 754 044 | 8 423 622 | 2 740 | 20 691 | 15 299 504 |
| 1985 | 723 544 | 23 478 | 79 230 | 5 618 274 | 197 854 | c | 728 257 | 8 987 681 | 1 311 | 14 236 | 16 373 865 |
| 1986 | 809 984 | 16 741 | 71 554 | 5 578 024 | 400 155 | c | 654 854 | 8 407 276 | 3 725 | 18 238 | 15 764 214 |
| 1987 | 1 047 717 | 22 555 | 73 435 | 5 753 027 | 252 322 | c | 738 686 | 8 830 198 | 4 290 | 8 064 | 16 730 295 |

^a In year ending 31 March

^b Totals may not be precise because of rounding.

^c No volumes recorded

Source: Anon. Statistics 19-- (various issues) Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.3. Area of land harvested, 1981-1987 (ha).

| Year ^a | Crown lands | FMA ^b | Total crown lands | Agreement forests (municipal) | WTAC | Other patent lands | Grand total |
|-------------------|----------------|------------------|-------------------------|-------------------------------------|-------|--------------------------|----------------|
| 1981 | | | | | | | |
| Evenaged | 166 249 | 19 180 | 185 429 | 165 | 131 | 31 437 | 217 162 |
| Unevenaged | 10 948 | - | 10 948 | 821 | 523 | 13 230 | 25 522 |
| Total | 177 197 | 19 180 | 196 377 | 986 | 654 | 44 667 | 242 684 |
| 1982 | | | | | | | |
| Evenaged | 146 928 | 25 366 | 172 294 | 79 | 134 | 30 280 | 202 787 |
| Unevenaged | 7 229 | - | 7 229 | 827 | 988 | 15 773 | 24 817 |
| Total | 154 157 | 25 366 | 179 523 | 906 | 1 122 | 46 053 | 227 604 |
| 1983 | | | | | | | |
| Evenaged | 126 219 | 42 411 | 168 630 | 2 181 | 151 | 29 375 | 200 337 |
| Unevenaged | 9 561 | - | 9 561 | 219 | 599 | 12 475 | 22 584 |
| Total | 135 780 | 42 411 | 178 191 | 2 400 | 750 | 41 850 | 223 191 |
| 1984 | | | | | | | |
| Evenaged | 110 935 | 31 116 | 142 051 | 1 249 | 188 | 9 598 | 153 086 |
| Unevenaged | 12 956 | - | 12 956 | 85 | 842 | 16 239 | 30 122 |
| Total | 123 891 | 31 116 | 155 007 | 1 334 | 1 030 | 25 837 | 183 208 |
| 1985 | | | | | | | |
| Evenaged | 116 300 | 60 689 | 176 989 | 573 | 949 | 8 808 | 187 319 |
| Unevenaged | 15 479 | - | 15 478 | 323 | 1 265 | 13 420 | 30 487 |
| Total | 131 779 | 60 689 | 192 468 | 896 | 2 214 | 22 228 | 217 806 |
| 1986 | | | | | | | |
| Evenaged | 100 785 | 87 823 | 188 608 | 138 | - | 3 522 | 192 268 |
| Unevenaged | 11 591 | - | 11 591 | 194 | 1 992 | 17 472 | 31 249 |
| Total | 112 376 | 87 823 | 200 199 | 332 | 1 992 | 20 994 | 223 517 |
| 1987 | | | | | | | |
| Evenaged | 81 222 | 106 877 | 188 099 | 45 | 21 | 8 209 | 196 374 |
| Unevenaged | 13 770 | - | 13 770 | 138 | 861 | 17 321 | 32 090 |
| Total | 94 992 | 106 877 | 201 869 | 183 | 882 | 25 530 | 228 464 |

^a In year ending 31 March

^b Forest Management Agreements on provincial crown land

^c Harvesting on lands managed under the Woodlands Improvement Act

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 3.4. Losses attributable to forest fires,
1965-1987.

| Year | Crown (ha) | Private (ha) | Total (ha) | No. of fires (ha) |
|------|---------------|-----------------|---------------|-------------------------|
| 1965 | 6 068 | 1 987 | 8 055 | 1 218 |
| 1966 | 3 421 | 2 413 | 5 834 | 1 921 |
| 1967 | 23 768 | 1 930 | 25 698 | 1 465 |
| 1968 | 1 078 | 2 751 | 3 829 | 1 219 |
| 1969 | 1 813 | 669 | 2 482 | 901 |
| 1970 | 22 358 | 1 179 | 23 537 | 1 239 |
| 1971 | 40 284 | 1 689 | 41 973 | 1 790 |
| 1972 | 29 802 | 2 208 | 32 010 | 1 604 |
| 1973 | 2 417 | 1 190 | 3 607 | 1 111 |
| 1974 | 522 641 | 1 346 | 523 987 | 1 625 |
| 1975 | 11 226 | 5 630 | 16 856 | 3 146 |
| 1976 | 536 529 | 7 578 | 544 107 | 3 985 |
| 1977 | 411 752 | 4 564 | 416 316 | 2 049 |
| 1978 | 7 040 | 483 | 7 523 | 940 |
| 1979 | 63 322 | 393 | 63 715 | 1 564 |
| 1980 | 524 893 | 35 847 | 560 740 | 1 779 |
| 1981 | 173 479 | 5 994 | 179 473 | 1 656 |
| 1982 | 2 555 | 1 337 | 3 892 | 1 396 |
| 1983 | 442 156 | 1 499 | 443 655 | 2 244 |
| 1984 | 118 851 | 1 567 | 120 418 | 1 240 |
| 1985 | 682 | 325 | 1 007 | 887 |
| 1986 | 143 692 | 1 869 | 145 561 | 1 088 |
| 1987 | 66 248 | 9 334 | 75 582 | 1 923 |

Sources: Anon. Statistics --. Ont. Min. Nat.
Resour., Toronto, Ont. Various issues.

Aviation and Fire Management Centre, Sault
Ste. Marie, Ont., personal communications.

Table 3.5. Losses attributable to forest fires, by OMNR administrative region, 1973-1987 (ha).

| Year | North-western | North Central | Northern | North-eastern | Algonquin | Eastern | Central | South-western | Total |
|------|---------------|---------------|----------|---------------|-----------|---------|---------|---------------|---------|
| 1973 | 1 177 | 1 428 | 413 | 383 | 108 | 91 | 6 | 1 | 3 607 |
| 1974 | 436 587 | 82 198 | 3 870 | 771 | 410 | 112 | 34 | 4 | 523 987 |
| 1975 | 708 | 4 242 | 5 155 | 4 831 | 1 269 | 619 | 18 | 14 | 16 856 |
| 1976 | 360 452 | 164 761 | 14 653 | 3 426 | 671 | 140 | 1 | 1 | 544 106 |
| 1977 | 287 200 | 74 454 | 40 843 | 12 485 | 1 065 | 229 | 38 | 1 | 416 315 |
| 1978 | 952 | 4 377 | 528 | 616 | 864 | 151 | 8 | 27 | 7 523 |
| 1979 | 49 109 | 13 611 | 622 | 96 | 107 | 168 | 2 | .1 | 63 715 |
| 1980 | 374 367 | 177 276 | 7 056 | 1 198 | 184 | 197 | 15 | 13 | 560 307 |
| 1981 | 109 841 | 56 049 | 12 394 | 513 | 318 | 276 | 67 | 14 | 179 473 |
| 1982 | 1 639 | 252 | 422 | 970 | 275 | 233 | 80 | 22 | 3 892 |
| 1983 | 365 248 | 73 993 | 3 379 | 497 | 340 | 187 | 9 | .9 | 443 654 |
| 1984 | 102 051 | 14 887 | 2 963 | 256 | 159 | 73 | 17 | 11 | 120 418 |
| 1985 | 117 | 121 | 324 | 159 | 114 | 144 | 10 | 17 | 1 006 |
| 1986 | 134 380 | 4 156 | 6 302 | 418 | 217 | 65 | 17 | 6 | 145 561 |
| 1987 | 55 107 | 7 258 | 12 466 | 428 | 212 | 61 | 25 | 25 | 75 582 |

Source: Anon. Statistics 19-- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Aviation and Fire Management Centre, Sault Ste. Marie, Ont., personal communications.

SECTION IV

FOREST MANAGEMENT

Table 4.1. Silvicultural operations on provincial crown lands, 1981-1988 (ha).

| Treatment | Year ^a | | | | | | | |
|------------------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
| Regeneration | | | | | | | | |
| Planting | | | | | | | | |
| Bare-root | 18 786 | 22 561 | 21 272 | 21 286 | 15 527 | 22 725 | 22 620 | 28 128 |
| Container | 4 829 | 6 357 | 7 305 | 17 889 | 36 963 | 38 521 | 39 885 | 34 987 |
| Hybrid poplar cuttings | 24 | 31 | 19 | 286 | 100 | 358 | 48 | 139 |
| Seeding | 47 296 | 27 869 | 29 857 | 21 180 | 15 908 | 18 683 | 20 925 | 26 310 |
| Scarification | 3 241 | 1 653 | 817 | 1 110 | 879 | 1 050 | 447 | 752 |
| Haro | - | - | - | - | - | - | - | 1 905 |
| Strip cutting | 1 562 | 2 879 | 1 445 | 718 | 1 145 | 1 641 | 1 032 | 976 |
| Seed tree cutting | 3 934 | 3 100 | 3 215 | 4 204 | 2 489 | 2 361 | 2 367 | 3 245 |
| Shelterwood cutting | 9 794 | 7 738 | 9 431 | 10 308 | 9 232 | 8 771 | 8 717 | 9 067 |
| Clear cutting | 6 202 | 4 909 | 7 552 | 14 121 | 8 960 | 9 437 | 15 351 | 19 618 |
| Total | 95 668 | 77 097 | 80 913 | 91 102 | 91 203 | 103 547 | 111 392 | 125 127 |
| Retreatment | 7 981 | 2 263 | 2 353 | 3 483 | 3 949 | 4 462 | 3 764 | 2 488 |
| Tending | | | | | | | | |
| Hand cleaning | 4 481 | 3 686 | 5 844 | 6 282 | 7 696 | 9 384 | 10 660 | 5 250 |
| Herbicide spraying | 25 404 | 19 668 | 26 165 | 21 125 | 42 023 | 57 566 | 59 279 | 64 071 |
| Thinning, improvement cuts | 8 209 | 6 679 | 6 698 | 6 908 | 6 591 | 8 845 | 9 404 | 7 191 |
| Pruning | 853 | 618 | 756 | 751 | 596 | 934 | 1 017 | 459 |
| Fertilization, drainage | 166 | 163 | 87 | 207 | 58 | 65 | 9 | 9 |
| Total | 39 113 | 30 814 | 39 550 | 35 273 | 56 964 | 76 794 | 80 369 | 76 980 |
| Site preparation | 51 057 | 53 289 | 67 583 | 74 064 | 83 808 | 94 687 | 107 072 | 112 607 |
| Marking | 43 390 | 38 954 | 37 229 | 42 301 | - | - | - | - |
| Unevenaged management | - | - | - | - | 11 769 | 13 529 | 13 202 | 26 532 |
| Total area treated | 237 209 | 202 417 | 225 275 | 242 740 | 243 744 | 288 557 | 312 035 | 341 246 |

^a For year ending 31 March

Source: Anon. Statistics 19--- (various issues). Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.2. Silvicultural operations, by ownership, 1988a (ha).

| Treatment | Provincial Crown land | Forest management agreements ^b | Agreement forests | Private ^c | Other private | Total |
|-------------------------------|-----------------------------|---|----------------------|----------------------|------------------|---------|
| Regeneration | | | | | | |
| Planting | | | | | | |
| Bare-root | 10 207 | 17 921 | 224 | 4 528 | 4 857 | 37 737 |
| Container | 10 630 | 24 357 | 66 | 83 | 24 | 35 160 |
| Hybrid poplar cuttings | 139 | - | 159 | - | 58 | 356 |
| Seeding | 6 845 | 19 465 | 4 | - | - | 26 314 |
| Scarification | 327 | 425 | - | 13 | - | 765 |
| Haro | - | 1 905 | - | - | - | 1 905 |
| Strip cutting | 98 | 1 878 | - | - | - | 976 |
| Seed tree cutting | 1 834 | 1 411 | - | - | - | 3 245 |
| Shelterwood cutting | 9 067 | - | 3 | 124 | 522 | 9 716 |
| Clear cutting | 7 042 | 12 576 | 65 | 15 | 107 | 19 805 |
| Total | 46 189 | 78 938 | 521 | 4 763 | 5 568 | 135 979 |
| Retreatment | 583 | 1 905 | 6 | 659 | - | 3 153 |
| Tending | | | | | | |
| Hand cleaning | 5 196 | 54 | 441 | 948 | - | 6 639 |
| Herbicide spraying | 18 200 | 45 871 | 889 | 2 429 | 393 | 67 782 |
| Thinning, improvement cuts | 6 796 | 395 | 1 149 | 1 346 | 2 285 | 11 971 |
| Pruning | 459 | - | 537 | 391 | 55 | 1 442 |
| Fertilization, drainage | 9 | - | 350 | 42 | 84 | 485 |
| Total | 30 660 | 46 320 | 3 366 | 5 156 | 2 817 | 88 319 |
| Site preparation | 40 883 | 71 724 | 503 | 1 879 | 472 | 115 461 |
| Unevenaged management | 26 532 | - | 578 | 2 313 | 9 293 | 38 716 |
| Total area treated | 144 264 | 196 982 | 4 968 | 14 111 | 18 150 | 378 475 |

a For year ending 31 March

b Provincial crown land

c Lands managed under the Woodlands Improvement Act

Source: Anon. 1988. Statistics 1987-1988. Ont. Min. Nat. Resour., Toronto, Ont.

Table 4.3 Prescribed burning, by ownership type, 1978-1989 (ha).

| Year ^a | Provincial crown land | Forest management agreements ^b | Total provincial crown land | Agreement forests | Private ^c | Total |
|-------------------|-----------------------------|---|--------------------------------------|----------------------|----------------------|--------|
| 1978 | 2 915 | - | 2 915 | - | 34 | 2 949 |
| 1979 | 4 199 | - | 4 199 | 24 | 24 | 4 248 |
| 1980 | 4 063 | - | 4 063 | 22 | 77 | 4 163 |
| 1981 | 2 362 | - | 2 362 | - | - | 2 362 |
| 1982 | 2 401 | - | 2 401 | 8 | - | 2 409 |
| 1983 | 4 826 | 434 | 5 260 | - | 17 | 5 277 |
| 1984 | 3 702 | 799 | 4 501 | - | - | 4 501 |
| 1985 | 3 707 | 123 | 3 830 | - | - | 3 830 |
| 1986 | 6 272 | 2 166 | 8 438 | 23 | - | 8 461 |
| 1987 | 6 144 | 5 190 | 11 334 | 12 | 2 | 11 348 |
| 1988 | 6 832 | 4 521 | 11 353 | 29 | 11 | 11 393 |
| 1989 | 646 | 3 633 | 4 279 | - | - | 4 279 |

^a For year ending 31 March

^b Provincial crown land

^c Lands managed under the Woodlands Improvement Act

Source: Ont. Min. Nat. Resour. Special request.

Table 4.4. Forest tree production by OMNR administrative region.

| OMNR administrative region | No. of production centres 1984 | Production area 1984 | Seedlings produced ('000 trees) 1984 | Planned production ('000 trees) | |
|----------------------------------|---|----------------------------|---|---------------------------------------|--------|
| | | | | 1985 | 1986 |
| Northwestern | 5 container | 7 290 m ² | 18 376 | n/a | n/a |
| | 1 bare-root | 41 ha | 3 700 | 4 100 | 3 700 |
| North Central | 7 container | 18 111 m ² | 24 173 | n/a | n/a |
| | 2 bare-root | 134 ha | 6 530 | 11 500 | 13 400 |
| Northern | 13 container | 35 194 m ² | 35 662 | n/a | n/a |
| | 3 bare-root | 131 ha | 21 371 | 27 544 | 26 115 |
| Northeastern | 4 container | 7 471 m ² | 8 207 | n/a | n/a |
| | 1 bare-root | 4 ha | 1 471 | 930 | 1 200 |
| Algonquin | - | - | - | - | - |
| Eastern | 2 container | 3 420 m ² | 977 | n/a | n/a |
| | 1 bare-root | 115 ha | 7 752 | 7 200 | 8 200 |
| Central | 1 container | 6 493 m ² | 62 | n/a | n/a |
| | 2 bare-root | 152 ha | 13 056 | 13 188 | 10 360 |
| Southwestern | 1 bare-root | 80 ha | 6 058 | 6 689 | 5 900 |
| Totals | 32 container | 77 979 m ² | 87 457 | 78 731 | 88 986 |
| | 11 bare-root | 657 ha | 59 938 | 71 151 | 68 875 |

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-378.

Table 4.5. Trees shipped, 1984, and planned production, 1985-1986, by province.

| Province | No. of production centres 1984 | Area available for production 1984 | Trees shipped ('000 trees) 1984 | Planned production 1985 | 1986 |
|----------------------|---|---|--|-------------------------------|--------------------|
| British Columbia | 26 container 11 bare-root | 240 395 m ² 853 ha | 74 702 53 329 | 155 338 53 696 | 241 598 51 450 |
| Alberta | 5 container 2 bare-root | 27 115 m ² 100 ha | 15 139 9 600 | 23 740 14 200 | 23 750 12 300 |
| Saskatchewan | 0 container 4 bare-root | 1 134 m ² 151 ha | 0 10 647 | 765 11 365 | 1 530 18 159 |
| Manitoba | 2 container 1 bare-root | 6 582 m ² 38 ha | 3 722 2 700 | 7 688 4 500 | 10 360 4 500 |
| Ontario | 32 container 11 bare-root | 77 979 m ² 761 ha | 81 458 59 938 | 78 731 71 151 | 88 986 68 875 |
| Quebec | 15 container 8 bare-root | 126 870 m ² 387 ha | 21 500 47 400 | 35 000 66 500 | 99 000 61 000 |
| New Brunswick | 9 container 2 bare-root | 53 316 m ² 126 ha | 39 802 14 300 | 54 391 13 000 | 54 411 13 000 |
| Nova Scotia | 8 container 2 bare-root | 27 407 m ² 99 ha | 12 073 4 600 | 23 900 4 400 | 29 754 6 500 |
| Prince Edward Island | 1 container 1 bare-root | 3 717 m ² 20 ha | 1 214 315 | 1 675 390 | 2 000 400 |
| Newfoundland | 3 container 1 bare-root | 3 204 m ² 40 ha | 2 439 3 242 | 3 165 7 000 | 3 165 9 000 |
| Total | 101 container 43 bare-root | 567 719 m ² 2 575 ha | 252 049 206 071 | 384 393 246 202 | 554 554 245 184 |

Source: Smyth, J.H. and Brownwright, A. 1986. Forest tree production centres in Canada, 1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. 0-X-378.

Table 4.6. Public and industry expenditures on forest management, by activity, Ontario and Canada, 1977, 1979, 1981, 1983, 1985.

| | 1977 | | 1979 | | 1981 | | 1983 | | 1985 | | 1988 ^a | |
|--------------|------------------------|-------|-------|-------|-------|---------|-------|---------|-------|---------|-------------------|---------|
| | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. |
| | ----- \$ 000,000 ----- | | | | | | | | | | | |
| Silviculture | 31.9 | 118.2 | 42.3 | 164.5 | 80.4 | 272.3 | 95.5 | 335.9 | 116.1 | 476.6 | 121.4 | 705.0 |
| Protection | 32.0 | 115.3 | 33.4 | 157.8 | 52.3 | 311.6 | 65.2 | 241.6 | 63.5 | 359.1 | 120.5 | 396.9 |
| Access | 31.5 | 216.8 | 32.0 | 284.7 | 43.6 | 265.3 | 71.3 | 229.6 | 80.2 | 346.4 | 46.0 | 284.5 |
| Research | 11.6 | 37.2 | 13.3 | 40.0 | 17.5 | 56.4 | 25.6 | 77.2 | 26.6 | 89.4 | 34.2 | 103.6 |
| Other | 20.4 | 171.8 | 25.6 | 224.6 | 35.9 | 342.1 | 43.3 | 363.5 | 68.3 | 406.1 | 73.7 | 526.1 |
| Total | 127.4 | 659.3 | 146.6 | 871.6 | 229.7 | 1 247.7 | 300.9 | 1 247.8 | 354.7 | 1 677.9 | 395.9 | 2 016.1 |

a preliminary figures

Sources: Smyth, J.H., Campbell, K.L., Lapointe, G., and Martel, J.-P. 1989. Forest management expenditures in Canada, 1983-1985. Can. Pulp Paper Assoc., Woodlands Sect., Montreal, P.Q., and Forestry Canada — Ontario Region, Sault Ste. Marie, Ont. Joint Rep. No. 14.

Barron, D.E., Smyth, J.H., Campbell, K.L., and Martel, J.-P. 1986. Forest management expenditures in Canada, 1977-1983. Can. Pulp Paper Assoc., Woodlands Sect., Montreal, P.Q., and Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 9.

SECTION V

COMMODITY PRODUCTION AND SHIPMENTS

Table 5.1. **Primary forest production, by product, all categories of ownership, 1973-1986 ('000 m³).**

| Year | | Logs and bolts | Pulpwood | Fuelwood | Miscellaneous roundwood | Total |
|------|----------|-------------------|----------|----------|----------------------------|--------|
| 1973 | softwood | 4 587 | 9 868 | 215 | 203 | 14 873 |
| | hardwood | 1 770 | 1 274 | 527 | a | 3 571 |
| | Total | 6 357 | 11 142 | 742 | 203 | 18 444 |
| 1974 | softwood | 4 191 | 10 562 | 227 | 150 | 15 130 |
| | hardwood | 1 826 | 1 331 | 580 | a | 3 737 |
| | Total | 6 017 | 11 893 | 807 | 150 | 18 867 |
| 1975 | softwood | 3 653 | 6 966 | 241 | 142 | 11 002 |
| | hardwood | 1 614 | 963 | 637 | a | 3 214 |
| | Total | 5 267 | 7 929 | 878 | 142 | 14 216 |
| 1976 | softwood | 5 437 | 8 552 | 255 | 193 | 14 437 |
| | hardwood | 1 926 | 850 | 665 | a | 3 441 |
| | Total | 7 363 | 9 402 | 920 | 193 | 17 878 |
| 1977 | softwood | 5 947 | 9 004 | 198 | 156 | 15 305 |
| | hardwood | 1 968 | 1 302 | 694 | a | 3 964 |
| | Total | 7 915 | 10 306 | 892 | 156 | 19 269 |
| 1978 | softwood | 6 230 | 9 267 | 255 | 139 | 15 891 |
| | hardwood | 2 025 | 1 337 | 934 | a | 4 296 |
| | Total | 8 255 | 10 604 | 1 189 | 139 | 20 187 |
| 1979 | softwood | 6 782 | 9 183 | 297 | 133 | 16 395 |
| | hardwood | 2 350 | 1 586 | 963 | a | 4 899 |
| | Total | 9 132 | 10 769 | 1 260 | 133 | 21 294 |
| 1980 | softwood | 6 768 | 9 345 | 255 | 113 | 16 481 |
| | hardwood | 2 293 | 1 458 | 1 090 | a | 4 841 |
| | Total | 9 061 | 10 803 | 1 345 | 113 | 21 322 |
| 1981 | softwood | 6 937 | 10 619 | 382 | 127 | 18 065 |
| | hardwood | 1 770 | 1 486 | 1 487 | a | 4 743 |
| | Total | 8 707 | 12 105 | 1 869 | 127 | 22 808 |
| 1982 | softwood | 6 139 | 8 835 | 359 | 113 | 15 446 |
| | hardwood | 1 495 | 1 387 | 1 450 | a | 4 332 |
| | Total | 7 634 | 10 222 | 1 809 | 113 | 19 778 |
| 1983 | softwood | 7 244 | 10 761 | 431 | 107 | 18 543 |
| | hardwood | 1 764 | 1 689 | 1 740 | a | 5 193 |
| | Total | 9 008 | 12 450 | 2 171 | 107 | 23 736 |
| 1984 | softwood | 9 487 | 11 995 | 360 | 7 | 21 849 |
| | hardwood | 2 834 | 1 636 | 1 811 | a | 6 281 |
| | Total | 12 321 | 13 631 | 2 171 | 7 | 28 130 |
| 1985 | softwood | 9 423 | 12 245 | 360 | 7 | 22 035 |
| | hardwood | 2 815 | 1 560 | 1 815 | a | 6 190 |
| | Total | 12 238 | 13 805 | 2 175 | 7 | 28 225 |
| 1986 | softwood | 10 017 | 13 164 | 349 | 9 | 23 539 |
| | hardwood | 2 992 | 1 677 | 1 978 | a | 6 647 |
| | Total | 13 009 | 14 841 | 2 327 | 9 | 30 186 |

a Included with softwood

Source: Statistics Canada. Catalogue No. 25-201.

Table 5.2. Pulpwood and wood residue consumption, 1971-1988 (m³).

| | Pulpwood | | Wood residue (woodchips) | Total |
|------|------------|-----------|-----------------------------|------------|
| | Softwood | Hardwood | | |
| 1971 | 8 826 188 | 1 622 895 | 1 792 745 | 12 241 828 |
| 1972 | 9 246 347 | 1 620 098 | 2 065 747 | 12 932 192 |
| 1973 | 9 231 612 | 1 475 923 | 2 403 626 | 13 111 161 |
| 1974 | 9 921 438 | 1 527 128 | 2 559 116 | 14 007 682 |
| 1975 | 6 739 000 | 933 000 | 1 763 000 | 9 435 000 |
| 1976 | 7 874 789 | 1 257 772 | 2 337 957 | 11 470 518 |
| 1977 | 9 146 015 | 1 304 872 | 3 368 456 | 13 819 343 |
| 1978 | 9 103 189 | 1 560 242 | 3 881 157 | 14 544 588 |
| 1979 | 9 672 002 | 1 519 145 | 4 107 950 | 15 299 097 |
| 1980 | 10 277 540 | 1 431 896 | 4 153 287 | 15 862 723 |
| 1981 | 9 779 330 | 1 655 178 | 4 319 348 | 15 753 856 |
| 1982 | 8 634 784 | 1 528 586 | 3 477 127 | 13 640 497 |
| 1983 | 9 585 687 | 1 885 428 | 4 003 082 | 15 474 197 |
| 1984 | 10 576 541 | 1 836 748 | 4 278 964 | 16 692 253 |
| 1985 | 9 624 299 | 1 911 597 | 4 726 781 | 16 262 677 |
| 1986 | n/a | n/a | n/a | 17 341 357 |
| 1987 | n/a | n/a | n/a | 17 626 491 |
| 1988 | n/a | n/a | n/a | 17 505 339 |

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.

Statistics Canada. Catalogue No. 36-204, 25-001, 36-250.

Table 5.3. Pulpwood and wood residue consumption, by major region, 1974-1988 ('000 m³).

| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Roundwood | | | | | | | | | | | | | | | |
| Softwood | | | | | | | | | | | | | | | |
| Quebec | 15 154 | 12 642 | 12 722 | 12 349 | 12 883 | 13 095 | 11 669 | 12 037 | 11 246 | 10 270 | 10 082 | 9 082 | n/a | n/a | n/a |
| Ontario | 9 921 | 6 739 | 7 875 | 9 146 | 9 103 | 9 672 | 10 278 | 9 779 | 8 635 | 9 586 | 10 577 | 9 624 | n/a | n/a | n/a |
| British Columbia | 8 774 | 6 256 | 6 714 | 5 663 | 6 046 | 5 958 | 6 594 | 6 125 | 4 803 | 4 873 | 4 895 | 5 707 | n/a | n/a | n/a |
| Other provinces | 11 878 | 10 980 | 11 263 | 10 543 | 11 052 | 11 950 | 11 894 | 12 368 | 10 414 | 10 293 | 11 408 | 10 765 | n/a | n/a | n/a |
| Total | 45 727 | 36 618 | 38 574 | 37 701 | 39 084 | 40 675 | 40 435 | 40 309 | 35 098 | 35 022 | 36 962 | 35 178 | n/a | n/a | n/a |
| Hardwood | | | | | | | | | | | | | | | |
| Quebec | 1 574 | 849 | 1 019 | 1 106 | 1 336 | 1 391 | 1 355 | 1 441 | 1 183 | 1 465 | 1 792 | 1 446 | n/a | n/a | n/a |
| Ontario | 1 527 | 933 | 1 258 | 1 305 | 1 560 | 1 519 | 1 432 | 1 655 | 1 529 | 1 885 | 1 837 | 1 912 | n/a | n/a | n/a |
| British Columbia | 380 | 179 | 241 | a | a | a | a | a | a | a | a | a | n/a | n/a | n/a |
| Other provinces | 1 650 | 925 | 830 | 1 931 | 1 843 | 1 326 | 1 240 | 1 312 | 1 116 | 1 383 | 2 006 | 1 886 | n/a | n/a | n/a |
| Total | 5 131 | 2 886 | 3 348 | 4 342 | 4 739 | 4 236 | 4 027 | 4 408 | 3 828 | 4 733 | 5 635 | 5 244 | n/a | n/a | n/a |
| Wood Residue | | | | | | | | | | | | | | | |
| Wood chips | | | | | | | | | | | | | | | |
| Quebec | 4 819 | 4 406 | 6 780 | 6 263 | 7 868 | 9 764 | 9 694 | 9 994 | 9 635 | 11 473 | 11 857 | 11 872 | n/a | n/a | n/a |
| Ontario | 2 559 | 1 763 | 2 338 | 3 368 | 3 881 | 4 108 | 4 153 | 4 319 | 3 477 | 4 003 | 4 279 | 4 727 | n/a | n/a | n/a |
| British Columbia | 16 703 | 13 017 | 19 050 | 18 019 | 19 332 | 20 264 | 20 211 | 18 075 | 17 676 | 20 742 | 19 459 | 24 655 | n/a | n/a | n/a |
| Other provinces | 3 969 | 2 956 | 4 108 | 3 173 | 3 037 | 3 025 | 3 797 | 3 422 | 2 622 | 2 853 | 4 452 | 4 593 | n/a | n/a | n/a |
| Total | 28 050 | 22 142 | 32 276 | 30 823 | 34 118 | 37 161 | 37 855 | 35 810 | 33 411 | 39 071 | 40 047 | 45 848 | n/a | n/a | n/a |
| Other Wood Residue and Scrap | | | | | | | | | | | | | | | |
| Quebec | b | b | b | 1 155 | 1 276 | 1 365 | 1 336 | 1 363 | 1 142 | 1 350 | 1 060 | 1 003 | n/a | n/a | n/a |
| Ontario | b | b | b | b | b | b | b | b | b | b | b | b | n/a | n/a | n/a |
| British Columbia | b | b | b | 1 160 | 1 282 | 1 240 | 1 377 | 1 210 | 1 487 | 1 953 | 1 895 | 2 479 | n/a | n/a | n/a |
| Other provinces | b | b | b | 775 | 914 | 1 287 | 1 107 | 1 285 | 937 | 977 | 1 202 | a | n/a | n/a | n/a |
| Total | 2 251 | 1 915 | 2 565 | 3 090 | 3 472 | 3 893 | 3 820 | 3 858 | 3 603 | 4 281 | 4 157 | 3 482 | n/a | n/a | n/a |
| Grand total | 81 159 | 63 560 | 76 763 | 75 956 | 81 413 | 85 965 | 86 131 | 84 385 | 75 940 | 83 108 | 86 801 | 89 752 | 93 506 | 98 538 | 100 377 |

a Insignificant
b Confidential

Sources: Canadian Pulp and Paper Association. Reference tables. Various issues.
Statistics Canada, Catalogue No. 36-204, 36-250, 25-001.

Table 5.4. Wood pulp production and consumption in Ontario and Canada, 1967-1986.

| Year | Production | | Ont. as % of Can. | Consumption | | Ont. as % of Can. |
|-------------------|---------------------|--------------------|-------------------------|---------------------|--------------------|-------------------------|
| | Ontario (tonnes) | Canada (tonnes) | | Ontario (tonnes) | Canada (tonnes) | |
| 1967 | 3 282 895 | 14 385 555 | 22.8 | 2 494 499 | 10 345 146 | 24.1 |
| 1968 | 3 305 817 | 15 205 889 | 21.7 | 2 472 493 | 10 554 861 | 23.4 |
| 1969 | 3 593 399 | 16 864 460 | 21.3 | 2 674 441 | 11 625 032 | 23.0 |
| 1970 | 3 600 683 | 16 608 604 | 21.7 | 2 672 321 | 11 586 087 | 23.1 |
| 1971 | 3 447 429 | 16 541 206 | 20.8 | 2 579 151 | 11 316 582 | 22.8 |
| 1972 | 3 572 171 | 17 453 405 | 20.5 | 2 629 758 | 11 903 030 | 22.1 |
| 1973 | 3 668 985 | 18 562 565 | 19.8 | 2 826 472 | 12 484 992 | 22.6 |
| 1974 | 3 877 502 | 19 678 159 | 19.7 | 2 981 685 | 13 037 431 | 22.9 |
| 1975 | 2 540 483 | 15 112 744 | 16.8 | 1 861 647 | 10 024 814 | 18.6 |
| 1976 | 3 060 329 | 17 946 114 | 17.1 | 2 327 618 | 11 526 630 | 20.2 |
| 1977 | 3 662 361 | 18 167 792 | 20.2 | 2 718 440 | 11 821 249 | 23.0 |
| 1978 | 4 126 664 | 20 152 457 | 20.5 | 3 198 993 | 13 537 149 | 23.6 |
| 1979 | 4 321 817 | 20 728 490 | 20.8 | 3 383 751 | 13 787 542 | 24.5 |
| 1980 | 4 368 097 | 20 687 143 | 21.1 | 3 332 192 | 13 521 571 | 24.6 |
| 1981 | 4 394 267 | 20 572 085 | 21.4 | 3 264 151 | 13 759 262 | 23.7 |
| 1982 | 3 752 791 | 18 513 570 | 20.3 | 2 878 170 | 12 358 890 | 23.3 |
| 1983 | 4 216 883 | 20 195 267 | 20.9 | a | a | a |
| 1984 | 4 365 776 | 20 463 574 | 21.3 | a | a | a |
| 1985 | 4 271 840 | 20 173 413 | 21.2 | a | a | a |
| 1986 | 4 181 877 | 20 317 283 | 20.6 | a | a | a |
| 1987 ^b | 4 372 000 | 23 035 000 | 19.0 | a | a | a |
| 1988 ^b | 4 447 000 | 23 367 000 | 19.0 | a | a | a |

^a No longer reported

^b CPPA estimates

Source: Statistics Canada, Catalogue No. 36-204, CPPA Reference Tables.

Table 5.5. Production of pulp and paper mills, 1977-1987 ('000 tonnes).

| Year | Wood pulp ^a | | | | Total Pulp | Paper ^b | | |
|------|------------------------|----------|----------|------------|------------|--------------------|----------------------------|----------------------|
| | Groundwood | Sulphite | Sulphate | Other Pulp | | Newsprint | Other paper/ Paperboard | Total paperboards |
| 1977 | 1 402.6 | 729.1 | 1 328.2 | 150.3 | 3 610.2 | 1 645.3 | 902.9 | 2 548.1 |
| 1978 | 1 479.8 | 612.0 | 1 566.7 | 144.1 | 3 849.2 | 1 759.4 | 939.3 | 2 698.7 |
| 1979 | 1 549.2 | 551.9 | 1 646.4 | 194.3 | 3 941.8 | 1 814.0 | 1 085.0 | 2 899.0 |
| 1980 | 1 486.7 | 536.6 | 1 799.1 | 185.1 | 4 007.6 | 1 788.7 | 1 077.5 | 2 866.2 |
| 1981 | 1 454.0 | 497.3 | 1 732.4 | 267.3 | 3 951.0 | 1 809.5 | 1 001.1 | 2 810.6 |
| 1982 | 1 150.6 | 379.4 | 1 561.5 | 231.0 | 3 322.6 | 1 511.6 | 952.5 | 2 464.1 |
| 1983 | 1 186.7 | 473.5 | 1 716.4 | 395.9 | 3 772.6 | 1 651.5 | 1 039.8 | 2 691.4 |
| 1984 | 1 288.6 | 503.1 | 1 903.2 | 416.5 | 4 111.4 | 1 824.8 | 1 122.5 | 2 947.3 |
| 1985 | 1 193.0 | 469.5 | 1 893.2 | 424.1 | 3 979.9 | 1 744.5 | 1 181.5 | 2 926.1 |
| 1986 | 1 240.4 | 325.2 | 2 153.6 | 442.6 | 4 161.8 | 1 820.2 | 1 306.1 | 3 126.3 |
| 1987 | 1 237.8 | 307.9 | 2 009.2 | 614.0 | 4 168.9 | 1 811.6 | 1 505.8 | 3 317.4 |

a Wood pulp production includes both integrated pulp and paper mills and non-integrated pulp mills.

b Paper production does not include non-integrated mills.

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont.
Annual, various issues.

Table 5.6. Lumber production, by species, 1970-1987 ('000 m³).

| Year | Spruce, balsam and jack pine | Red and white pine | Hem- lock | Other soft- woods | Total soft- woods | Birch | Elm | Oak | Maple | Poplar | Other hard- woods | Mixed hard- woods | Total hard- woods | Total lumber, all species ^a |
|------|--|-----------------------------|--------------|-------------------------|-------------------------|-------|------|------|-------|--------|-------------------------|-------------------------|-------------------------|---|
| 1970 | 1 098.4 | 314.3 | 48.7 | 9.6 | 1 471.3 | 75.9 | 55.8 | n/a | 219.4 | 36.2 | 81.6 | n/a | 470.6 | 1 942.2 |
| 1971 | 1 360.9 | 288.5 | 33.1 | 11.6 | 1 694.2 | 76.2 | 39.6 | n/a | 237.3 | 30.6 | 91.2 | n/a | 475.4 | 2 169.6 |
| 1972 | 1 499.9 | 305.8 | 34.0 | 8.8 | 1 848.8 | 88.1 | 37.7 | n/a | 272.1 | 35.4 | 93.4 | n/a | 550.2 | 2 375.5 |
| 1973 | 1 938.6 | 372.4 | 37.7 | 10.8 | 2 359.6 | 66.3 | 30.9 | n/a | 293.4 | 75.9 | 136.8 | n/a | 602.9 | 2 962.5 |
| 1974 | 1 858.7 | 344.3 | 41.6 | 11.9 | 2 256.3 | 86.1 | 25.8 | n/a | 319.7 | 60.3 | 120.9 | n/a | 612.8 | 2 869.3 |
| 1975 | 1 583.5 | 329.6 | 37.7 | 14.4 | 1 965.2 | 59.2 | 15.9 | 22.4 | 225.7 | 44.2 | 51.2 | 23.5 | 445.7 | 2 410.9 |
| 1976 | 1 961.2 | 367.0 | 35.4 | 12.7 | 2 376.3 | 83.0 | 37.4 | 21.0 | 221.7 | 42.5 | 54.1 | 29.2 | 489.0 | 2 865.4 |
| 1977 | 2 483.5 | 374.9 | 51.2 | 8.9 | 2 918.6 | 67.8 | 8.5 | 27.2 | 275.5 | 57.5 | 69.9 | 19.3 | 525.6 | 3 444.2 |
| 1978 | 2 826.1 | 460.4 | 51.8 | 11.3 | 3 349.6 | 67.1 | 9.6 | 36.8 | 306.1 | 69.7 | 76.5 | 77.6 | 643.4 | 3 993.0 |
| 1979 | 2 778.4 | 428.7 | 58.9 | 31.7 | 3 297.8 | 75.6 | 6.1 | 39.0 | 344.7 | 83.2 | 109.1 | 37.5 | 685.6 | 3 983.4 |
| 1980 | 3 079.3 | 434.7 | 60.4 | 34.0 | 3 608.0 | 73.7 | 11.3 | 35.2 | 303.5 | 77.9 | 83.5 | 88.8 | 673.8 | 4 281.8 |
| 1981 | 3 108.3 | 429.4 | 69.5 | 17.5 | 3 617.0 | 80.2 | 3.0 | 40.3 | 276.3 | 93.1 | 84.2 | 33.1 | 610.1 | 4 327.1 |
| 1982 | 2 358.2 | 382.5 | .8 | 9.9 | 2 793.0 | 47.9 | 1.6 | 35.0 | 208.2 | 56.7 | 55.1 | 46.0 | 450.3 | 3 343.3 |
| 1983 | 3 055.4 | 488.5 | 49.0 | 13.2 | 3 606.0 | 52.7 | b | 40.2 | 264.0 | 76.5 | 55.4 | 28.2 | 510.6 | 4 116.6 |
| 1984 | 3 335.8 | 566.1 | 48.2 | 22.2 | 3 972.2 | 71.2 | b | 51.8 | 246.1 | 79.9 | 88.1 | 48.9 | 586.2 | 4 558.4 |
| 1985 | 3 625.5 | 541.9 | 48.4 | 14.0 | 4 229.0 | 78.9 | b | 51.3 | 258.4 | 98.6 | 90.8 | 76.0 | 654.1 | 4 883.0 |
| 1986 | 3 629.7 | 586.7 | 54.8 | 14.4 | 4 285.7 | 64.0 | b | 75.7 | 276.6 | 89.4 | 95.3 | 51.6 | 652.5 | 4 938.2 |
| 1987 | 3 803.2 | 585.1 | 67.3 | 14.5 | 4 470.2 | 78.9 | b | 62.5 | 299.6 | 90.7 | 147.9 | 57.8 | 700.1 | 5 170.3 |

^a Totals may not be precise because of rounding.

^b No longer reported

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.7. **Lumber production in northern Ontario, by OMNR administrative region, 1978-1987 ('000 m³).**

| Year | Type | OMNR administrative region | | | | Total |
|------|----------|----------------------------|---------------|----------|---------------|---------|
| | | North-western | North Central | Northern | North-eastern | |
| 1978 | softwood | 256.0 | 824.0 | 1 352.4 | 555.7 | 2 988.1 |
| | hardwood | .5 | 79.7 | 5.1 | 112.2 | 197.5 |
| 1979 | softwood | 256.5 | 903.7 | 1 357.5 | 667.9 | 3 185.6 |
| | hardwood | 262.3 | 633.8 | 1 496.8 | 529.8 | 2 922.7 |
| 1980 | softwood | 3.7 | 27.1 | 10.0 | 130.6 | 171.3 |
| | hardwood | 266.0 | 660.9 | 1 506.8 | 660.4 | 3 094.0 |
| 1981 | softwood | 250.9 | 873.4 | 1 489.8 | 614.8 | 3 228.0 |
| | hardwood | 2.3 | 28.9 | 9.7 | 145.9 | 186.7 |
| 1982 | softwood | 253.2 | 902.3 | 1 499.5 | 660.7 | 3 415.7 |
| | hardwood | 301.1 | 829.8 | 1 462.8 | 686.2 | 3 279.0 |
| 1983 | softwood | 1.9 | 37.7 | 10.3 | 123.8 | 173.8 |
| | hardwood | 303.0 | 867.5 | 1 473.1 | 810.0 | 3 453.7 |
| 1984 | softwood | 229.5 | 524.7 | 1 197.5 | 559.3 | 2 510.1 |
| | hardwood | 1.3 | 10.4 | 59.0 | 77.8 | 149.5 |
| 1985 | softwood | 230.8 | 535.1 | 1 257.5 | 637.0 | 2 660.6 |
| | hardwood | 375.0 | 739.1 | 1 480.0 | 620.0 | 3 214.1 |
| 1986 | softwood | .3 | 2.9 | 8.3 | 106.7 | 118.2 |
| | hardwood | 375.3 | 742.0 | 1 488.3 | 726.7 | 3 332.3 |
| 1987 | softwood | 352.2 | 849.2 | 1 494.4 | 867.2 | 3 563.0 |
| | hardwood | 1.6 | 4.5 | 6.9 | 107.9 | 120.9 |
| 1988 | softwood | 353.8 | 853.7 | 1 501.3 | 975.1 | 3 683.9 |
| | hardwood | 369.9 | 980.0 | 1 539.2 | 944.4 | 3 833.5 |
| 1989 | softwood | .4 | 3.2 | 4.8 | 112.5 | 120.9 |
| | hardwood | 370.3 | 983.2 | 1 544.0 | 1 056.9 | 3 954.4 |
| 1990 | softwood | 412.0 | 1 014.1 | 1 612.8 | 856.7 | 3 895.6 |
| | hardwood | .6 | 3.6 | 6.4 | 99.1 | 109.7 |
| 1991 | softwood | 412.6 | 1 017.7 | 1 619.2 | 955.8 | 4 005.3 |
| | hardwood | 459.4 | 875.6 | 1 626.8 | 1 108.6 | 4 070.4 |
| 1992 | softwood | .9 | 8.3 | 15.7 | 94.8 | 119.7 |
| | hardwood | 460.3 | 883.9 | 1 642.5 | 1 203.4 | 4 190.1 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.8. Lumber production in southern Ontario, by OMNR administrative region, 1978-1987 ('000 m³).

| Year | Type | OMNR administrative region | | | | Total |
|------|----------|----------------------------|---------|---------|---------------|-------|
| | | Algonquin | Eastern | Central | South-western | |
| 1978 | softwood | 321.4 | 28.9 | 5.8 | 5.3 | 361.5 |
| | hardwood | 200.2 | 70.1 | 39.3 | 136.3 | 445.9 |
| 1979 | softwood | 521.6 | 99.0 | 45.1 | 141.5 | 807.4 |
| | hardwood | 333.0 | 26.9 | 7.9 | 7.2 | 375.1 |
| 1980 | softwood | 269.1 | 83.5 | 54.5 | 107.2 | 514.3 |
| | hardwood | 602.1 | 110.4 | 62.4 | 114.4 | 889.4 |
| 1981 | softwood | 333.3 | 26.5 | 13.3 | 5.9 | 379.0 |
| | hardwood | 223.7 | 94.4 | 57.3 | 111.7 | 487.0 |
| 1982 | softwood | 556.0 | 120.9 | 70.6 | 117.6 | 866.0 |
| | hardwood | 276.9 | 43.5 | 12.1 | 4.4 | 336.9 |
| 1983 | softwood | 225.6 | 61.1 | 46.3 | 103.4 | 436.3 |
| | hardwood | 502.5 | 104.6 | 58.4 | 107.8 | 773.2 |
| 1984 | softwood | 217.3 | 33.5 | 24.3 | 5.2 | 280.2 |
| | hardwood | 190.2 | 51.3 | 47.7 | 84.9 | 374.2 |
| 1985 | softwood | 407.5 | 84.8 | 72.0 | 90.1 | 654.4 |
| | hardwood | 319.7 | 44.5 | 24.4 | 3.2 | 391.8 |
| 1986 | softwood | 215.6 | 42.8 | 45.7 | 88.3 | 392.4 |
| | hardwood | 535.3 | 87.3 | 70.1 | 91.5 | 784.2 |
| 1987 | softwood | 328.1 | 35.6 | 41.9 | 3.5 | 409.1 |
| | hardwood | 247.6 | 47.6 | 61.1 | 108.9 | 465.2 |
| 1988 | softwood | 575.7 | 83.2 | 103.0 | 112.4 | 874.3 |
| | hardwood | 319.7 | 37.7 | 33.4 | 4.6 | 395.4 |
| 1989 | softwood | 294.6 | 52.3 | 66.3 | 119.8 | 533.0 |
| | hardwood | 614.3 | 90.0 | 99.7 | 124.4 | 928.4 |
| 1990 | softwood | 333.0 | 29.4 | 21.0 | 6.6 | 390.0 |
| | hardwood | 297.3 | 60.7 | 59.4 | 125.3 | 542.7 |
| 1991 | softwood | 630.3 | 90.1 | 80.4 | 131.9 | 932.7 |
| | hardwood | 351.9 | 27.6 | 15.0 | 5.2 | 399.7 |
| 1992 | softwood | 335.1 | 60.5 | 44.7 | 140.5 | 580.8 |
| | hardwood | 687.0 | 88.1 | 59.7 | 145.7 | 980.5 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.9. Wood chip production, by OMNR administrative region, 1977-1987.

| Year | OMNR administrative region | | | |
|------|---------------------------------|---|-------------------------------------|-------------------------|
| | North Central (m ³) | Northern and Northeastern (m ³) | All other regions (m ³) | Total (m ³) |
| 1977 | 1 193 712 | 1 985 673 | 388 656 | 3 568 041 |
| 1978 | 1 438 356 | 2 110 467 | 492 001 | 4 040 825 |
| 1979 | 1 479 480 | 2 429 411 | 656 260 | 4 565 153 |
| 1980 | 1 342 023 | 2 691 778 | 484 693 | 4 618 495 |
| 1981 | 1 187 420 | 2 591 994 | 502 637 | 4 282 051 |
| 1982 | 853 698 | 2 224 792 | 345 690 | 3 425 840 |
| 1983 | 1 510 400 | 2 708 744 | 618 044 | 4 823 166 |
| 1984 | 1 844 864 ^a | 3 155 926 | 746 710 | 5 747 500 |
| 1985 | 1 931 123 ^a | 3 436 658 | 696 631 | 6 064 412 |
| 1986 | 1 726 719 ^a | 3 569 197 | 762 337 | 6 058 253 |
| 1987 | 1 789 442 ^a | 3 918 988 | 646 545 | 6 354 975 |

^a Includes Northwestern and North Central Regions

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.10. Roundwood consumption by the saw-mill industry, 1970-1984.

| Year | Softwood ('000 m ³) | Hardwood ('000 m ³) | Total ('000 m ³) |
|------|-------------------------------------|-------------------------------------|----------------------------------|
| 1970 | 3 569 | 1 099 | 4 668 |
| 1971 | 3 855 | 919 | 4 804 |
| 1972 | 3 810 | 1 056 | 4 866 |
| 1973 | 4 615 | 1 100 | 5 715 |
| 1974 | 4 774 | 1 195 | 5 969 |
| 1975 | 3 624 | 750 | 4 374 |
| 1976 | 4 374 | 778 | 5 152 |
| 1977 | 5 957 | 799 | 6 756 |
| 1978 | 6 641 | 836 | 7 477 |
| 1979 | 7 751 | 927 | 8 678 |
| 1980 | 8 744 | 853 | 9 597 |
| 1981 | 7 929 | 861 | 8 790 |
| 1982 | 6 778 | 601 | 7 379 |
| 1983 | 7 091 | 626 | 7 717 |
| 1984 | 7 555 | 600 | 8 155 |

Note: Statistics Canada no longer reports these numbers.

Source: Statistics Canada. Catalogue No. 35-204.

Table 5.11. Shipments of roundwood, by product, 1969-1986.

| Year | Logs, bolts and other roundwood | | | | | | | | | | Pulpwood | | | | | | | | | | Total roundwood | |
|------|---------------------------------|-------------------|--------|----------|--------|---------|--------|---------|--------|---------|----------|---------|--------|----------|--------|------|--------|------|--|--|-----------------|--|
| | Softwood ^a | | | Hardwood | | | Total | | | | Softwood | | | Hardwood | | | Total | | | | | |
| | Quant. ^b | Val. ^c | Quant. | Val. | Quant. | Val. | Quant. | Val. | Quant. | Val. | Quant. | Val. | Quant. | Val. | Quant. | Val. | Quant. | Val. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 1969 | 2 372 | 24 353 | 736 | 11 064 | 3 013 | 33 932 | 11 395 | 142 701 | 1 509 | 15 009 | 12 904 | 157 710 | 16 012 | 193 127 | | | | | | | | |
| 1970 | 2 206 | 23 248 | 557 | 8 356 | 2 700 | 30 557 | 10 639 | 140 176 | 1 283 | 12 702 | 11 922 | 152 078 | 14 684 | 184 482 | | | | | | | | |
| 1971 | 2 680 | 29 785 | 606 | 9 205 | 3 214 | 37 684 | 9 336 | 129 269 | 1 051 | 9 643 | 10 387 | 138 912 | 13 672 | 177 902 | | | | | | | | |
| 1972 | 3 134 | 36 219 | 706 | 10 839 | 3 760 | 45 463 | 10 780 | 147 679 | 1 085 | 10 533 | 11 865 | 158 212 | 15 704 | 205 270 | | | | | | | | |
| 1973 | 2 696 | 33 940 | 690 | 11 192 | 3 349 | 44 416 | 11 142 | 162 605 | 1 203 | 13 975 | 12 345 | 176 580 | 15 731 | 221 712 | | | | | | | | |
| 1974 | 2 882 | 40 841 | 733 | 13 935 | 3 575 | 53 865 | 11 298 | 209 913 | 1 524 | 16 413 | 12 822 | 226 326 | 16 438 | 281 102 | | | | | | | | |
| 1975 | 2 629 | 46 432 | 494 | 12 612 | 3 023 | 56 584 | 7 866 | 174 412 | 594 | 9 883 | 8 460 | 184 295 | 11 583 | 243 339 | | | | | | | | |
| 1976 | 2 521 | 51 189 | 523 | 13 154 | 3 021 | 63 578 | 8 877 | 222 776 | 1 061 | 19 876 | 9 938 | 242 652 | 12 983 | 306 995 | | | | | | | | |
| 1977 | 3 641 | 79 086 | 609 | 14 839 | 4 203 | 92 994 | 9 370 | 255 049 | 1 182 | 24 417 | 11 109 | 310 383 | 15 877 | 428 042 | | | | | | | | |
| 1978 | 4 115 | 100 439 | 652 | 17 220 | 4 763 | 117 557 | 9 916 | 282 712 | 1 193 | 27 671 | 11 375 | 349 064 | 16 248 | 483 055 | | | | | | | | |
| 1979 | 4 145 | 112 307 | 727 | 21 684 | 4 872 | 133 991 | 10 053 | 314 650 | 1 323 | 34 414 | 11 375 | 372 198 | 16 743 | 526 775 | | | | | | | | |
| 1980 | 4 545 | 132 448 | 700 | 22 129 | 5 245 | 154 577 | 10 291 | 341 071 | 1 207 | 31 127 | 11 498 | 430 778 | 16 855 | 586 510 | | | | | | | | |
| 1981 | 3 581 | 118 481 | 1 062 | 37 251 | 4 643 | 155 732 | 10 075 | 363 999 | 2 137 | 66 779 | 12 212 | 430 778 | 16 855 | 586 510 | | | | | | | | |
| 1982 | 2 998 | 100 883 | 862 | 26 135 | 3 859 | 126 926 | 10 059 | 348 578 | 1 909 | 64 094 | 11 968 | 412 672 | 15 828 | 539 690 | | | | | | | | |
| 1983 | 3 975 | 137 052 | 687 | 27 328 | 4 662 | 164 380 | 9 879 | 379 779 | 2 387 | 83 058 | 12 266 | 462 837 | 16 928 | 627 217 | | | | | | | | |
| 1984 | 5 062 | 177 067 | 1 000 | 33 988 | 6 062 | 211 055 | 9 089 | 378 924 | 3 138 | 103 125 | 12 228 | 482 049 | 18 290 | 693 104 | | | | | | | | |
| 1985 | 4 716 | 177 145 | 691 | 27 661 | 5 408 | 204 806 | 10 696 | 432 007 | 2 429 | 76 687 | 13 125 | 508 694 | 18 533 | 713 500 | | | | | | | | |
| 1986 | 7 295 | 259 211 | 735 | 27 415 | 8 030 | 286 626 | 10 052 | 431 558 | 2 490 | 77 619 | 12 542 | 509 177 | 20 572 | 795 803 | | | | | | | | |

^a Includes other hardwood

^b '000 m³

^c \$'000

Source: Statistics Canada, Catalogue No. 25-201.

Table 5.12. **Veneer and plywood production,
1977-1987.**

| Year | Veneer (m ³) | Plywood (m ³) | Total (m ³) |
|------|-----------------------------|------------------------------|----------------------------|
| 1977 | 77 222 | 189 146 | 266 368 |
| 1978 | 98 344 | 212 517 | 310 861 |
| 1979 | 100 117 | 189 723 | 289 840 |
| 1980 | 112 775 | 194 193 | 306 968 |
| 1981 | 137 661 | 124 511 | 262 172 |
| 1982 | 117 319 | 89 267 | 206 586 |
| 1983 | 139 967 | 99 814 | 239 781 |
| 1984 | 147 135 | 105 425 | 252 560 |
| 1985 | 116 272 | 97 897 | 214 169 |
| 1986 | 117 544 | 120 961 | 238 505 |
| 1987 | 119 208 | 129 342 | 248 550 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

Table 5.13. Particleboard and waferboard production, 1977-1986.

| Year | Particleboard (m ³) | Waferboard (m ³) | Total (m ³) |
|------|------------------------------------|---------------------------------|----------------------------|
| 1977 | 228 235 | 250 273 | 478 508 |
| 1978 | 279 718 | 324 745 | 604 463 |
| 1979 | 284 814 | 377 885 | 662 699 |
| 1980 | 318 271 | 316 412 | 634 683 |
| 1981 | 320 811 | 339 591 | 660 402 |
| 1982 | 235 348 | 258 644 | 493 992 |
| 1983 | 256 207 | 460 195 | 716 402 |
| 1984 | 235 453 | 557 377 | 792 830 |
| 1985 | 310 152 | 542 579 | 852 731 |
| 1986 | 337 254 | 532 000 | 869 254 |
| 1987 | 369 917 | 536 396 | 906 313 |

Source: Anon. Ontario forest industry statistical reports. Ont. Min. Nat. Resour., Toronto, Ont. Annual, various issues.

SECTION VI

COMMODITY TRADE

Export/Import Notes

In the reporting year of 1988, Statistics Canada began collecting export and import data according to the new Harmony System of Coding. Because of this major change in the way data is collected, the results are not directly comparable with information from previous years.

This issue of Selected Forestry Statistics, Ontario: 1989, will, therefore, report 1987 data by the old system, and will also show data for 1988 by major groups according to the new system.

Table 6.1. Value of pulp, paper and paper products exported from Ontario, 1987.

| | Exports | |
|---|--------------------|---------------------------|
| | Ontario | Canada |
| | ----- \$,000 ----- | ----- |
| | | Ontario as % of Canada |
| Pulp | | |
| Dissolving and special alpha | 164.3 | 157 205.3 |
| Sulphate, paper grades | | |
| Bleached softwood | 569 836.2 | 4 071 306.5 |
| Bleached hardwood | 117 697.1 | 402 509.6 |
| Semi-bleached | 8 155.8 | 233 294.0 |
| Unbleached | 3 262.1 | 65 656.9 |
| Sulphite, paper grades | | |
| Bleached | 520.1 | 271 589.7 |
| Unbleached, strong | a | 24 187.9 |
| Unbleached, news grade | a | 13.8 |
| Mechanical | | |
| Bleached | a | 18 469.9 |
| Unbleached | 61.3 | 115 878.9 |
| Other pulps | 842.3 | 112 922.9 |
| Newsprint | 1 195 244.5 | 6 028 589.5 |
| Other paper and paperboard | | |
| Wrapping paper | | |
| Bleached sulphite and sulphate | 28 901.6 | 34 536.0 |
| Unbleached sulphite and sulphate | 1 909.4 | 159 802.0 |
| Miscellaneous furnishes | 715.3 | 1 609.4 |
| Wrapping paper (not elsewhere specified) | 1 960.6 | 16 129.8 |
| Book, writing and other printing | | |
| Groundwood printing | 298 056.9 | 707 973.6 |
| Paper for printing | 98 308.9 | 156 504.2 |
| Writing and reproduction | 36 400.3 | 85 296.7 |
| Fine paper | 4 483.1 | 31 650.7 |
| Base stock for coated print paper | 4 243.7 | 4 356.3 |
| Hanging paper unprinted | 30.6 | 30.6 |
| Paperboard | | |
| Liner board | 5 442.7 | 138 759.7 |
| Corrugating | 8 093.4 | 122 223.6 |
| Solid bleached and folding boxboard | 10 764.2 | 17 242.4 |
| Other paperboard | 16 378.7 | 24 192.5 |
| Wet machine board | 46.4 | 3 007.1 |
| Building board | | |
| Rigid insulating board | 1 726.7 | 7 267.8 |
| Hard board | 6 691.9 | 38 659.9 |
| Other building board | 175.8 | 739.4 |
| Asphalt shingles | 44 153.9 | 54 589.2 |
| Building and roofing paper | 13 845.4 | 50 860.1 |
| Tissue paper, except sanitary | 1 920.9 | 5 117.8 |
| Sanitary | 22 501.4 | 65 430.6 |
| Paper products | | |
| Wallpaper, printed | 107 683.8 | 142 523.6 |
| Other converted papers | 41 087.4 | 65 994.9 |
| Total | 2 651 326.7 | 13 436 110.0 |

a Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.2. Value of exports of sawn lumber, laden in Ontario, 1987.

| | Exports | |
|----------------------------------|-----------|---------------------------|
| | Ontario | Ontario as % of Canada |
| | -\$,000 | Canada |
| Hardwood | | |
| Basswood | 525.3 | 2 078.1 |
| Birch | 6 632.6 | 15 707.7 |
| Maple | 12 269.6 | 22 006.5 |
| Oak | 14 565.8 | 31 871.1 |
| Poplar | 3 085.2 | 13 190.8 |
| Other hardwoods | 11 797.7 | 28 756.1 |
| Total | 48 876.2 | 113 610.3 |
| Softwood | | |
| White spruce | 2 338.0 | 59 002.2 |
| Lodgepole pine | 49.0 | 10 493.3 |
| Yellow cedar | 29.1 | 112 444.1 |
| Cedar (not elsewhere specified) | 1 172.5 | 664 765.0 |
| Sitka spruce | 7.8 | 107 634.5 |
| Douglas-fir and western larch | 596.3 | 352 253.0 |
| Western hemlock and amabilis fir | 155.8 | 998 933.0 |
| Spruce-pine-fir | 611 933.5 | 3 368 987.6 |
| (not elsewhere specified) | | 18.2 |
| Ponderosa pine | 178.5 | 1 235.1 |
| Red pine | 2 911.8 | 3 048.9 |
| White pine | 27 195.1 | 60 063.3 |
| Pine (not elsewhere specified) | 929.6 | 2 797.8 |
| Other softwoods | 432.0 | 3 367.6 |
| Total | 647 929.0 | 5 745 025.4 |
| Total | 696 805.2 | 5 858 635.7 |

a Nil or zero

Source: Statistics Canada. Special compilation.

Table 6.3. Value of veneer and plywood exports, laden in Ontario, 1987.

| | Exports | |
|--------------------------|---------------------------|-----------|
| | Ontario as % of Canada | |
| Veneer | | |
| Oak | 28 645.9 | 51 567.1 |
| Birch | 19 027.0 | 44 658.0 |
| Elm | 468.8 | 602.9 |
| Maple | 5 465.9 | 6 897.0 |
| Walnut | 1 509.3 | 4 136.1 |
| Other hardwood | 7 276.3 | 12 741.4 |
| Spruce ^a | 1 326.1 | 1 505.8 |
| Other softwood | | 9 700.9 |
| Total veneer | 63 719.6 | 131 809.2 |
| Plywood | | |
| Birch | 8 837.6 | 19 155.4 |
| Other hardwood | 9 157.3 | 13 913.5 |
| Other softwood | 435.3 | 44 989.5 |
| Total plywood | 18 430.2 | 78 058.4 |
| Total veneer and plywood | 82 149.8 | 209 867.6 |
| | | 39.1 |

a - nil or zero

Source: Statistics Canada. Special compilation.

Table 6.4 Value of imports of major forest products, Ontario and Canada, 1987.

| Commodity | Ontario - - - - \$000 | Canada - - - - | Imports |
|--------------------------------|--------------------------|-------------------|---------------------------|
| | | | Ontario as % of Canada |
| Logs, hardwood | 25 722 | 56 217 | 45.7 |
| Logs, softwood | 489 | 97 554 | 0.5 |
| Logs, exotic species | 13 | 142 | 9.1 |
| Poles | 5 075 | 11 162 | 45.5 |
| Bolts and round timber | 171 | 2 244 | 7.6 |
| Pulpwood chips | 270 | 6 478 | 4.2 |
| Pulpwood | 6 430 | 22 343 | 28.8 |
| Lumber, hardwood | 153 753 | 261 483 | 58.8 |
| Lumber, softwood | 43 718 | 132 386 | 33.0 |
| Lumber, exotic species | 17 643 | 30 560 | 57.7 |
| Railway ties | 1 044 | 3 768 | 27.7 |
| Dimension stock | 8 412 | 12 815 | 66.1 |
| Miscellaneous sawmill products | 576 | 4 826 | 11.9 |
| Veneer, hardwood | 18 360 | 29 252 | 62.8 |
| Veneer, softwood | 1 329 | 15 475 | 8.6 |
| Plywood, hardwood | 22 377 | 61 857 | 36.2 |
| Plywood, softwood | 18 569 | 29 959 | 62.0 |
| Plywood, wood building boards | 7 749 | 17 884 | 43.3 |
| Particleboard | 5 430 | 21 353 | 25.4 |
| Wood pulp | 57 695 | 142 687 | 34.6 |
| Miscellaneous paper products | | | |
| Printing, book, misc. | 423 791 | 696 359 | 60.8 |
| Tissues and sanitary | 22 954 | 43 190 | 53.1 |
| Wrapping and packaging | 24 528 | 42 429 | 57.8 |
| Paperboards | 155 221 | 236 296 | 65.7 |
| Converted paper | 118 057 | 179 343 | 65.8 |
| Building boards and papers | 31 306 | 69 518 | 45.0 |
| Total | 1 170 682 | 2 227 583 | 52.5 |

Source: Statistics Canada. Special compilation.

Table 6.5 Value of leading exports to the United States, 1987.

| Sector | \$ million | Percentage of total |
|------------------------------------|------------|---------------------|
| Motor vehicles | 13 319.6 | 24.7 |
| Automotive parts | 10 984.4 | 20.3 |
| Other transportation equipment | 6 210.3 | 11.5 |
| Pulp, paper and wood products | 3 333.9 | 6.2 |
| Industrial machinery parts | 2 460.4 | 4.6 |
| Iron and steel | 1 914.6 | 3.5 |
| Non-ferrous metals | 1 613.8 | 3.0 |
| Office machines and computers | 1 536.8 | 2.8 |
| Agriculture, food and beverages | 1 515.6 | 2.8 |
| Chemical and allied products | 1 358.9 | 2.5 |
| All other products | 9 736.5 | 15.4 |
| Total exports to the United States | 53 984.8 | |
| Total exports to all countries | 62 593.1 | |

86.2% of Ontario's exports go to the United States

Source: Ministry of Industry, Trade and Technology. Ontario Trade Review.

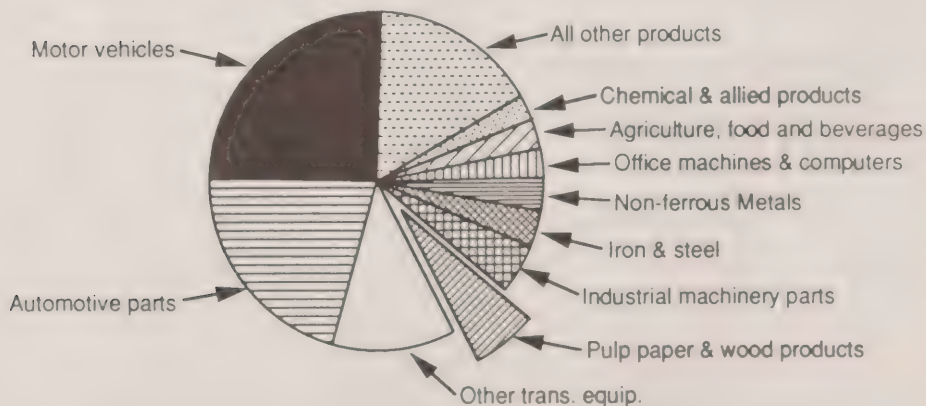


Figure 5. Value of leading exports to the United States, 1987.

Table 6.6. Value of exports and imports of major forest products, 1988^a.

| | Exports | | Imports | |
|---|--------------------|---------------------|--------------------|--------------------|
| | Ontario | Canada | Ontario | Canada |
| | \$ 000 | | | |
| <hr/> | | | | |
| Chapter 44. Wood and articles of wood; wood charcoal | | | | |
| Lumber | 552 372.0 | 5 469 793.4 | 260 038.9 | 499 337.7 |
| Veneer | 63 828.6 | 146 376.6 | 24 710.1 | 45 885.7 |
| Wood (lumber) continuously shaped | 23 697.6 | 244 538.0 | 44 592.1 | 94 024.0 |
| Particleboard of wood | 33 021.2 | 200 178.0 | 12 865.9 | 33 463.0 |
| Plywood | 17 940.7 | 144 563.1 | 41 278.0 | 94 945.5 |
| Doors and their frames | 31 850.1 | 54 347.8 | 9 213.2 | 14 062.6 |
| All articles of wood NES ^b | 94 008.1 | 942 403.5 | 168 654.5 | 443 752.2 |
| Total | 816 718.3 | 7 202 200.4 | 561 352.7 | 1 225 470.7 |
| <hr/> | | | | |
| Chapter 47. Pulp of wood/of other fibrous cellulosic material: waste, etc. | | | | |
| Mechanical wood pulp | 474.7 | 142 608.4 | 415.0 | 3 558.3 |
| Chemical wood pulp | 876 604.5 | 6 130 257.3 | 45 112.3 | 149 511.0 |
| Semi-mechanical wood pulp | 381.7 | 165 367.0 | 2 170.3 | 5 638.9 |
| Waste and scrap of paper/paperboard | 12 292.7 | 53 219.0 | 98 929.1 | 138 072.0 |
| All other pulps | 45.2 | 37 093.6 | 833.3 | 6 411.1 |
| Total | 889 798.9 | 6 528 474.4 | 147 460.0 | 303 191.3 |
| <hr/> | | | | |
| Chapter 48. Paper and paperboard | | | | |
| Newsprint | 1 546 072.9 | 6 195 174.8 | 2 470.6 | 3 563.2 |
| Paper, fine | 337 193.8 | 1 315 885.4 | 277 059.4 | 490 544.1 |
| Paper, kraft | 18 200.3 | 59 037.5 | 87 621.5 | 122 881.3 |
| Paper, sanitary | 20 137.1 | 32 930.1 | 33 979.2 | 50 594.1 |
| Paperboards | 29 964.2 | 369 237.3 | 75 868.3 | 103 655.4 |
| All other papers, paperboards, NES | 409 916.3 | 911 102.6 | 571 280.7 | 905 798.5 |
| Total | 2 361 484.6 | 8 883 387.7 | 1 048 279.7 | 1 677 036.6 |
| <hr/> | | | | |
| Total | 4 068 001.8 | 22 614 061.5 | 1 757 092.4 | 3 205 698.6 |

^a These figures are not directly comparable with figures in Tables 6.1 - 6.5, because Statistics Canada now reports according to the new Harmony System.

^b not elsewhere specified

Source: Statistics Canada, special compilation

SECTION VII

PRINCIPAL STATISTICS

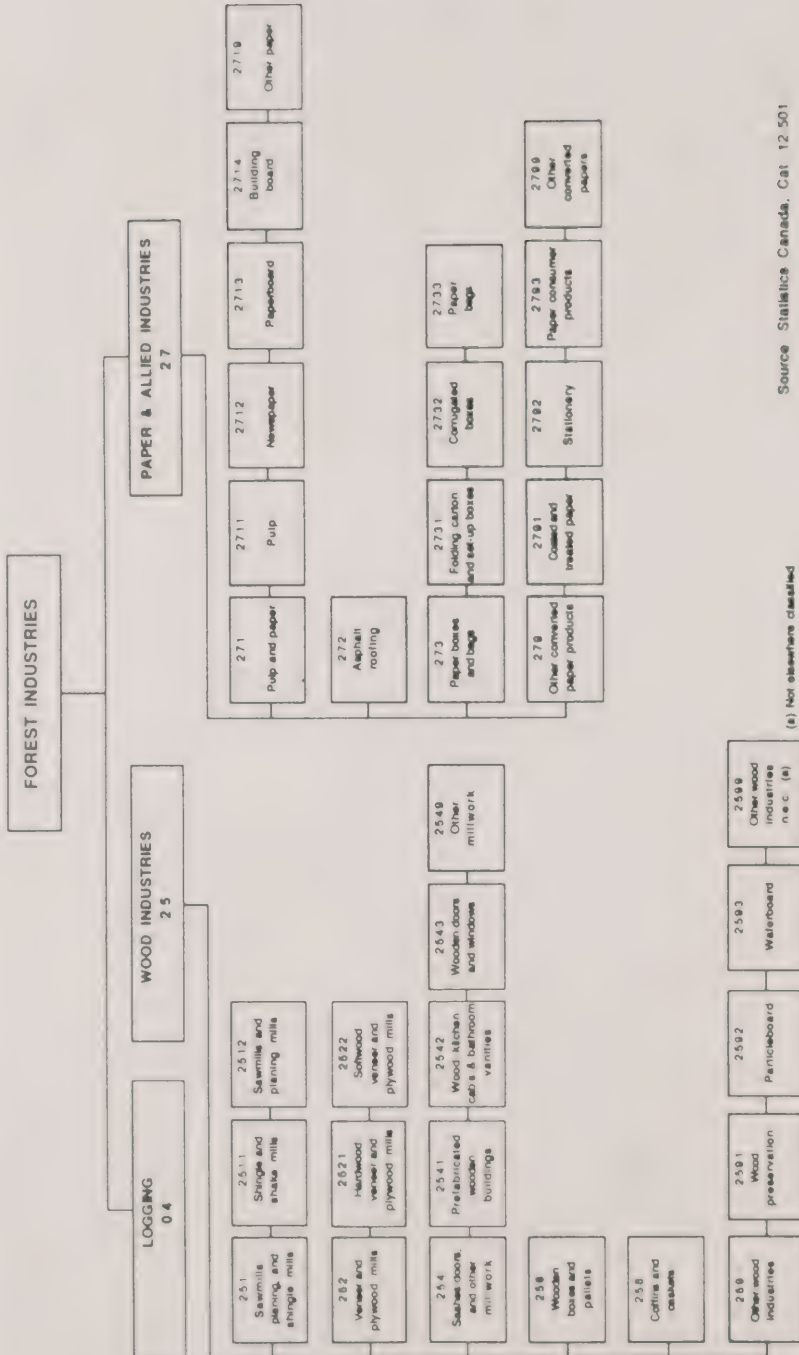
Principal Statistics Notes

The manner in which Principal Statistics are reported by Statistics Canada in 1987 has changed substantially from previous years. The amount of data reported has decreased dramatically, and all information previously reported will not be available in the future. The methodology of the survey has also changed somewhat. For example, the number of establishments in 1987 may appear quite different from the number in previous years, but the difference may be due to changes in methodology, and not necessarily to a real change in the sector.

This issue of Selected Forestry Statistics, Ontario: 1989, therefore, shows only the data that are directly comparable with data reported previously in the series. The 1987 figures are only preliminary; complete documentation was not available from Statistics Canada at time of printing.

The next issue will include a revision of the entire section on Principal Statistics as it relates to the new way in which Statistics Canada is reporting data.

Table 7.1 Standard industrial classification of forest industries, 1980.



(e) Not elsewhere classified

Source: Statistics Canada, Cat 12 501

Table 7.2. Principal statistics for the forest industry in Ontario, 1984, 1985, 1986 and 1987.

| Sector | Manufacturing activity | | | | | | | | | | Total activity | |
|-----------------------------|--------------------------------|--------------------------|--------|--------------------------|---|---|---|--------------------------------|--|---|----------------|--|
| | Production and related workers | | | | Cost of fuel and electricity | | | | Value of shipments of goods of own manufacture | | Employees | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | (No.) | Wages - - - - - (\$'000) | Cost of fuel and electricity - - - - - (\$'000) | Cost of materials and supplies - - - - - (\$'000) | Value of shipments of goods of own manufacture - - - - - (\$'000) | Value added - - - - - (\$'000) | (No.) | Salaries and wages added - - - - - (\$'000) | Value added | |
| | | | | | | | | | | | | |
| 1984 | | | | | | | | | | | | |
| Logging | 484 | 17 283 | 8 264 | 230 988 | 44 724 | 514 580 | 922 640 | 391 493 | 9 515 | 275 809 | 394 618 | |
| Wood industries | 838 | 36 538 | 17 524 | 335 434 | 61 128 | 999 172 | 1 795 703 | 761 219 | 20 840 | 432 202 | 774 791 | |
| Paper and allied industries | 311 | 66 009 | 31 806 | 848 873 | 408 817 | 3 044 817 | 5 851 884 | 2 453 274 | 41 690 | 1 181 223 | 2 466 296 | |
| Total forest industries | 1 633 | 119 830 | 57 594 | 1 415 295 | 514 669 | 4 558 569 | 8 570 227 | 3 605 986 | 72 045 | 1 889 234 | 3 635 705 | |
| 1985 | | | | | | | | | | | | |
| Logging | 518 | 15 207 | 7 313 | 218 105 | 45 769 | 501 328 | 949 222 | 388 446 | 8 482 | 260 439 | 390 214 | |
| Wood industries | 851 | 42 602 | 19 777 | 399 224 | 67 135 | 1 140 014 | 2 103 431 | 902 792 | 23 207 | 507 511 | 912 627 | |
| Paper and allied industries | 317 | 65 896 | 31 251 | 893 031 | 404 954 | 3 186 653 | 6 036 236 | 2 468 039 | 40 990 | 1 245 332 | 2 476 824 | |
| Total forest industries | 1 686 | 123 705 | 58 341 | 1 510 360 | 517 858 | 4 827 995 | 9 088 889 | 3 759 277 | 72 679 | 2 013 282 | 3 779 665 | |
| 1986 | | | | | | | | | | | | |
| Logging | 570 | 14 551 | 7 419 | 229 653 | 49 755 | 536 816 | 1 014 980 | 447 395 | 8 527 | 271 810 | 456 310 | |
| Wood industries | 898 | 48 409 | 22 598 | 471 163 | 66 033 | 1 350 940 | 2 485 038 | 1 083 836 | 25 852 | 583 272 | 1 091 104 | |
| Paper and allied industries | 329 | 67 127 | 31 782 | 944 846 | 392 512 | 3 375 624 | 6 529 388 | 2 779 765 | 41 429 | 1 312 831 | 2 789 539 | |
| Total forest industries | 1 797 | 130 087 | 61 799 | 1 645 662 | 508 300 | 5 263 380 | 10 029 406 | 4 310 996 | 75 808 | 2 167 913 | 4 336 953 | |
| 1987p | | | | | | | | | | | | |
| Logging | 507 | n/a | 6 197 | 203 448 | 50 356 | 538 309 | 993 290 | 401 617 | 7 244 | 244 927 | 403 857 | |
| Wood industries | 845 | n/a | n/a | n/a | 66 319 | n/a | n/a | n/a | 28 040 | 653 090 | 1 164 674 | |
| Paper and allied industries | 322 | n/a | n/a | n/a | 393 658 | n/a | n/a | n/a | 42 316 | 1 364 278 | 3 289 695 | |
| Total forest industries | 1 674 | n/a | n/a | n/a | 510 333 | n/a | n/a | n/a | 77 600 | 2 262 295 | 4 858 226 | |

P - preliminary

Sources: Statistics Canada. Catalogue No. 25-202, 35-250B, 36-250B.

Table 7.1. Principal statistics for logging in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | | | Total activity | |
|------------------------|------------------------|--------------------------------|--------|------------------------------|--------|--------------------------------|------------------|-----------|-----------------------------|--|----------------------|-----------|----------------|----------------------|
| Year | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and electricity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture | Value added (\$'000) | Employees | | Value added (\$'000) |
| | | Person hours paid ('000) | Wages | of | and | Opening (\$'000) | Closing (\$'000) | (No.) | Salaries and wages (\$'000) | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1970 | 474 | 8 246 | 19 637 | 67 433 | 5 224 | 99 272 | 53 774 | 50 563 | 218 052 | 110 454 | 9 567 | 79 745 | 111 533 | |
| 1971 | 408 | 6 900 | 16 080 | 62 730 | 4 936 | 94 459 | 50 021 | 48 731 | 206 608 | 105 966 | 8 125 | 74 761 | 106 650 | |
| 1972 | 393 | 6 598 | 15 861 | 69 594 | 6 262 | 104 970 | 48 969 | 42 971 | 234 063 | 116 776 | 7 783 | 81 892 | 117 993 | |
| 1973 | 400 | 7 677 | 17 292 | 84 257 | 8 131 | 113 766 | 43 765 | 54 523 | 254 794 | 144 185 | 8 983 | 98 699 | 145 762 | |
| 1974 | 380 | 8 225 | 18 543 | 103 433 | 11 329 | 150 366 | 54 126 | 74 848 | 376 247 | 186 730 | 9 673 | 121 454 | 188 240 | |
| 1975 | 328 | 6 616 | 14 865 | 91 265 | 9 724 | 150 098 | 76 622 | 107 316 | 302 702 | 174 117 | 8 028 | 111 940 | 176 673 | |
| 1976 | 269 | 6 307 | 12 802 | 103 363 | 11 014 | 153 503 | 99 727 | 105 041 | 353 893 | 195 277 | 7 694 | 126 888 | 196 735 | |
| 1977 | 246 | 7 035 | 14 324 | 127 140 | 12 539 | 188 298 | 105 477 | 100 040 | 435 323 | 229 325 | 8 447 | 153 309 | 231 149 | |
| 1978 | 255 | 8 099 | 16 562 | 150 301 | 15 045 | 244 909 | 104 891 | 109 817 | 504 960 | 251 259 | 9 569 | 179 797 | 253 658 | |
| 1979 | 321 | 8 096 | 16 572 | 163 647 | 17 084 | 306 121 | 120 005 | 131 212 | 588 598 | 276 600 | 9 684 | 197 276 | 278 921 | |
| 1980 | 391 | 8 015 | 16 692 | 179 478 | 24 072 | 365 267 | 129 287 | 167 444 | 668 003 | 316 832 | 9 578 | 215 652 | 319 883 | |
| 1981 | 418 | 7 374 | 14 979 | 185 016 | 30 562 | 381 431 | 159 787 | 173 041 | 717 927 | 319 189 | 9 003 | 230 052 | 327 515 | |
| 1982 | 418 | 5 683 | 11 370 | 149 796 | 33 320 | 346 243 | 169 067 | 152 847 | 678 892 | 283 108 | 7 079 | 193 796 | 287 982 | |
| 1983 | 472 | 6 568 | 13 463 | 185 569 | 39 425 | 398 704 | 128 105 | 126 550 | 793 959 | 354 276 | 7 826 | 227 797 | 355 758 | |
| 1984 | 484 | 8 264 | 17 283 | 230 988 | 44 724 | 514 580 | 125 499 | 153 656 | 922 640 | 391 493 | 9 515 | 275 809 | 394 618 | |
| 1985 | 518 | 7 313 | 15 207 | 218 105 | 45 769 | 501 328 | 152 613 | 138 933 | 949 222 | 388 446 | 8 482 | 260 439 | 390 214 | |
| 1986 | 570 | 7 419 | 14 551 | 229 653 | 49 755 | 536 816 | 146 702 | 165 688 | 1 014 980 | 447 395 | 8 527 | 271 810 | 456 310 | |
| 1987P | 507 | 6 197 | n/a | 203 448 | 50 356 | 538 309 | n/a | n/a | 993 290 | 401 617 | 7 244 | 244 927 | 403 657 | |

P - preliminary

Sources: Statistics Canada, Catalogue No. 25-201.

Table 7.4. Principal statistics for wood industries^a in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | Total activity | |
|-------|--------------------------------|--------|--------------------------|---------|-----------|---|---------|---------|-------------|--------|-----------------------------------|----------------------|
| | Production and related workers | | | | | Cost of fuel and electricity and materials and supplies | | | | | Employees | |
| | Estab-lish-ments (No.) | (No.) | Person hours paid ('000) | Wages | Inventory | Value of shipments of goods of own manu- facture | Opening | Closing | Value added | (No.) | Salaries and wages added (\$'000) | Value added (\$'000) |
| | | | | | | | | | | | | |
| 1970 | 755 | 13 783 | 29 605 | 73 339 | 39 844 | 316 922 | 40 215 | 40 215 | 149 616 | 16 664 | 96 282 | 152 246 |
| 1971 | 733 | 13 956 | 29 883 | 79 810 | 40 807 | 360 390 | 35 785 | 35 785 | 169 865 | 16 835 | 105 050 | 172 794 |
| 1972 | 733 | 15 458 | 32 908 | 94 358 | 35 213 | 449 702 | 34 889 | 34 889 | 218 661 | 18 598 | 124 486 | 223 446 |
| 1973 | 727 | 16 874 | 35 887 | 113 637 | 34 299 | 580 816 | 39 596 | 39 596 | 304 481 | 20 662 | 154 051 | 309 767 |
| 1974 | 740 | 16 459 | 34 948 | 128 408 | 39 924 | 631 072 | 59 607 | 59 607 | 323 717 | 20 507 | 176 537 | 333 098 |
| 1975 | 726 | 15 860 | 33 285 | 138 761 | 55 248 | 638 441 | 69 865 | 69 865 | 300 512 | 19 284 | 185 822 | 306 896 |
| 1976 | 683 | 16 533 | 34 390 | 161 789 | 68 823 | 734 319 | 75 447 | 75 447 | 336 439 | 19 868 | 212 309 | 343 414 |
| 1977 | 645 | 16 737 | 35 116 | 185 845 | 75 118 | 870 023 | 79 731 | 79 731 | 404 653 | 20 110 | 242 641 | 410 509 |
| 1978 | 707 | 18 268 | 38 368 | 216 348 | 78 432 | 1 077 962 | 80 940 | 80 940 | 511 099 | 21 942 | 279 260 | 515 321 |
| 1979 | 761 | 19 283 | 40 815 | 252 044 | 82 366 | 1 319 647 | 105 905 | 105 905 | 620 394 | 22 902 | 320 144 | 629 169 |
| 1980 | 778 | 18 035 | 38 087 | 260 078 | 104 079 | 1 275 892 | 127 944 | 127 944 | 554 153 | 21 348 | 328 793 | 562 631 |
| 1981 | 774 | 17 699 | 37 190 | 287 201 | 129 113 | 1 436 082 | 142 685 | 142 685 | 614 011 | 20 970 | 362 998 | 619 138 |
| 1982 | 794 | 15 817 | 31 751 | 256 192 | 144 056 | 1 256 366 | 129 840 | 129 840 | 517 941 | 19 015 | 334 260 | 525 522 |
| 1983 | 820 | 16 518 | 34 112 | 297 880 | 130 254 | 1 572 204 | 142 063 | 142 063 | 680 533 | 19 562 | 381 158 | 698 513 |
| 1984 | 838 | 17 524 | 36 538 | 335 434 | 137 241 | 1 795 703 | 164 043 | 164 043 | 761 219 | 20 840 | 432 202 | 774 791 |
| 1985 | 851 | 19 777 | 42 602 | 399 224 | 175 505 | 2 103 431 | 182 014 | 182 014 | 902 792 | 23 207 | 507 511 | 912 627 |
| 1986 | 898 | 22 598 | 48 409 | 471 163 | a | 2 485 038 | a | a | 1 083 836 | 25 852 | 583 272 | 1 091 104 |
| 1987P | 845 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 28 040 | 653 090 | 1 164 674 |

a confidential data for SIC 252 and SIC 258
P preliminary

Sources: Statistics Canada, Catalogue Nos. 35-204, 35-205, 35-206, 35-208, 35-210, 35-250B and 31-203.

Table 7.5. Principal statistics for sawmills and planing mills in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | | Total activity | |
|------------------------|------------------------|--------------------------------|--------|------------------------------|--------------------------------|-----------|---------|---|-------------|-----------|-----------------------------------|----------------|---------|
| Year | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and electricity | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture | Value added | Employees | | | |
| | | Person hours paid ('000) | Wages | | | Opening | Closing | | | (No.) | Salaries and wages added (\$'000) | | |
| | | | | | | | | | | | | | |
| 1970 | 292 | 4 677 | 10 355 | 2 474 | 50 358 | 22 719 | 23 770 | 99 022 | 47 242 | 5 361 | 30 123 | 47 899 | |
| 1971 | 273 | 4 428 | 9 640 | 2 888 | 54 754 | 24 087 | 20 693 | 115 752 | 54 717 | 5 204 | 32 552 | 55 190 | |
| 1972 | 267 | 4 778 | 10 213 | 29 980 | 3 455 | 61 634 | 20 414 | 18 150 | 144 976 | 77 624 | 5 595 | 37 604 | 77 889 |
| 1973 | 255 | 5 353 | 11 416 | 37 803 | 5 194 | 76 198 | 17 948 | 20 027 | 196 598 | 117 285 | 6 620 | 51 641 | 117 612 |
| 1974 | 261 | 5 158 | 11 037 | 43 187 | 6 694 | 90 960 | 20 819 | 32 963 | 198 957 | 113 447 | 6 557 | 60 078 | 114 210 |
| 1975 | 240 | 4 508 | 9 530 | 41 903 | 5 796 | 101 059 | 29 785 | 42 276 | 180 044 | 85 680 | 5 444 | 54 694 | 86 123 |
| 1976 | 222 | 4 642 | 9 846 | 49 421 | 7 324 | 117 179 | 40 341 | 41 352 | 222 918 | 99 427 | 5 660 | 64 385 | 100 125 |
| 1977 | 215 | 5 156 | 11 071 | 61 285 | 9 416 | 146 030 | 40 582 | 42 244 | 290 277 | 136 493 | 6 221 | 78 341 | 136 414 |
| 1978 | 225 | 5 752 | 12 259 | 74 847 | 11 727 | 187 757 | 41 028 | 41 726 | 396 084 | 197 297 | 6 888 | 95 015 | 197 672 |
| 1979 | 243 | 5 956 | 12 877 | 85 950 | 13 550 | 252 670 | 42 444 | 55 031 | 495 612 | 241 979 | 7 105 | 107 704 | 242 820 |
| 1980 | 235 | 6 009 | 12 861 | 97 454 | 14 875 | 290 029 | 54 361 | 77 738 | 480 955 | 199 429 | 6 967 | 118 193 | 200 208 |
| 1981 | 235 | 5 647 | 11 956 | 100 156 | 20 428 | 305 451 | 79 400 | 81 433 | 521 359 | 197 512 | 6 630 | 123 566 | 197 720 |
| 1982 | 221 | 4 976 | 9 876 | 88 481 | 21 713 | 265 789 | 84 552 | 78 176 | 451 470 | 157 593 | 6 005 | 113 256 | 161 104 |
| 1983 | 228 | 5 461 | 11 186 | 106 900 | 25 796 | 347 514 | 81 598 | 85 293 | 597 648 | 228 063 | 6 433 | 132 022 | 233 690 |
| 1984 | 225 | 5 787 | 11 670 | 117 362 | 28 537 | 413 224 | 83 240 | 97 309 | 669 101 | 241 409 | 6 886 | 147 815 | 242 281 |
| 1985 | 212 | 6 526 | 13 944 | 148 664 | 32 981 | 473 890 | 110 900 | 117 521 | 817 357 | 317 105 | 7 686 | 186 640 | 318 033 |
| 1986 | 210 | 6 798 | 14 132 | 162 261 | 31 071 | 501 265 | 112 733 | 115 407 | 851 314 | 321 652 | 7 685 | 191 832 | 323 215 |
| 1987 ^p | 185 | n/a | n/a | n/a | 31 180 | n/a | n/a | n/a | n/a | n/a | 7 785 | 202 220 | 298 089 |

Note: 1987 data are for SIC 2512 only, and do not include data for one establishment in SIC 2511, because of the need for confidentiality.

P - preliminary

Sources: Statistics Canada, Catalogue No. 35-204 and 35-2508.

Table 7.6. Principal statistics for the veneer and plywood industry in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | Total activity | | | |
|------------------------|--------------------------------|--------------------------|-------|------------------------------|--------------------------------|-----------|---------|--|-------------|-----------|--------------------|----------------------|----------|--|
| Year | Production and related workers | | | Cost of fuel and electricity | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manufacture | Value added | Employees | | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | | | (No.) | Opening | | | Closing | Salaries and wages | Value added (\$'000) | | |
| | | | | | | | | | | | | | (\$'000) | |
| | | | | | | | | | | | | | | |
| 1970 | 29 | 1 978 | 4 031 | 9 505 | 857 | 18 446 | 5 890 | 5 200 | 35 075 | 15 081 | 2 283 | 11 871 | 15 482 | |
| 1971 | 27 | 1 997 | 4 063 | 10 220 | 917 | 17 043 | 5 217 | 3 179 | 37 382 | 17 385 | 2 262 | 12 453 | 17 501 | |
| 1972 | 25 | 2 166 | 4 453 | 12 260 | 1 110 | 18 655 | 3 253 | 2 586 | 43 715 | 23 284 | 2 432 | 14 848 | 23 354 | |
| 1973 | 24 | 2 178 | 4 515 | 13 622 | 1 254 | 23 000 | 2 586 | 2 414 | 56 155 | 31 728 | 2 434 | 16 229 | 31 588 | |
| 1974 | 22 | 1 921 | 3 945 | 13 841 | 1 220 | 22 779 | 2 149 | 3 319 | 52 052 | 29 224 | 2 189 | 16 820 | 29 331 | |
| 1975 | 21 | 1 838 | 3 696 | 14 780 | 1 326 | 23 949 | 2 922 | 3 897 | 46 874 | 22 575 | 2 078 | 17 986 | 22 656 | |
| 1976 | 20 | 1 796 | 3 441 | 16 174 | 1 454 | 25 088 | 3 976 | 3 676 | 50 814 | 23 973 | 2 039 | 19 583 | 24 542 | |
| 1977 | 21 | 1 715 | 3 261 | 17 310 | 1 740 | 30 511 | 3 942 | 4 253 | 59 237 | 27 298 | 1 965 | 21 245 | 26 820 | |
| 1978 | 22 | 2 020 | 4 035 | 22 912 | 2 140 | 39 126 | 4 285 | 3 774 | 88 946 | 47 169 | 2 317 | 28 108 | 46 554 | |
| 1979 | 23 | 2 160 | 4 427 | 26 434 | 2 642 | 50 885 | 4 342 | 5 136 | 110 975 | 58 243 | 2 470 | 32 566 | 60 903 | |
| 1980 | 24 | 2 146 | 4 395 | 28 915 | 3 025 | 59 572 | 5 138 | 7 499 | 112 240 | 52 005 | 2 443 | 35 532 | 54 380 | |
| 1981 | 18 | 1 950 | 4 081 | 30 151 | 3 870 | 66 825 | 7 477 | 8 652 | 120 226 | 50 706 | 2 231 | 36 585 | 50 017 | |
| 1982 | 21 | 1 753 | 3 326 | 25 501 | 3 930 | 52 495 | 8 425 | 7 206 | 98 834 | 41 190 | 2 016 | 32 336 | 41 104 | |
| 1983 | 23 | 1 782 | 3 621 | 30 432 | 4 786 | 59 966 | 7 139 | 8 546 | 125 854 | 62 510 | 2 046 | 38 365 | 65 846 | |
| 1984 | 24 | 1 889 | 3 938 | 35 870 | 4 845 | 69 234 | 8 546 | 11 894 | 138 718 | 67 987 | 2 176 | 45 694 | 72 022 | |
| 1985 | 19 | 1 585 | 3 179 | 30 867 | 5 372 | 59 341 | 11 705 | 13 099 | 118 954 | 55 636 | 1 864 | 39 299 | 57 216 | |
| 1986 | 18 | a | a | a | a | a | a | a | a | a | a | a | a | |
| 1987P | 19 | n/a | n/a | n/a | 6 072 | n/a | n/a | n/a | n/a | n/a | 2 130 | 48 091 | 79 115 | |

- confidential

a - confidential
p - preliminary

Sources: Statistics Canada, Catalogue No. 35-206 and 35-250B.

Table 1.1. Principal statistics for gash, door and other millwork industries in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | Total activity | |
|-------|--------------------------------|--------------------------|--------------|--|-------------|--------------------------------|-------------------|-------------------|--|-------------|-----------------|-----------------------------------|
| | Production and related workers | | | | | Cost of fuel and electricity | | | | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages ('000) | Value of shipments of goods of own manufacture | Value added | Cost of materials and supplies | Inventory Opening | Inventory Closing | Value of shipments of goods of own manufacture | Value added | Employees (No.) | Salaries and wages added (\$'000) |
| | | | | | | | | | | | | |
| 1970 | 261 | 3 393 | 7 397 | 19 166 | 1 176 | 54 004 | 6 996 | 7 002 | 100 973 | 45 799 | 4 490 | 27 778 |
| 1971 | 257 | 3 838 | 8 372 | 22 621 | 1 312 | 66 229 | 7 085 | 7 200 | 121 476 | 48 049 | 4 911 | 32 564 |
| 1972 | 273 | 4 716 | 10 126 | 29 553 | 1 482 | 94 371 | 6 934 | 9 539 | 161 504 | 68 257 | 5 960 | 42 134 |
| 1973 | 278 | 5 138 | 11 094 | 35 644 | 1 932 | 116 063 | 9 260 | 11 673 | 208 578 | 92 996 | 6 582 | 51 375 |
| 1974 | 279 | 5 165 | 11 178 | 41 324 | 2 283 | 129 719 | 11 594 | 16 547 | 237 505 | 110 455 | 6 714 | 60 672 |
| 1975 | 283 | 5 114 | 10 861 | 45 672 | 2 424 | 136 249 | 15 384 | 15 120 | 258 851 | 119 911 | 6 540 | 66 021 |
| 1976 | 282 | 5 935 | 12 514 | 57 837 | 3 151 | 162 191 | 15 881 | 18 671 | 297 071 | 134 517 | 7 233 | 78 844 |
| 1977 | 266 | 5 513 | 11 706 | 57 759 | 3 847 | 160 572 | 18 950 | 21 815 | 292 993 | 131 440 | 6 819 | 80 045 |
| 1978 | 303 | 5 786 | 12 189 | 63 740 | 4 314 | 178 215 | 21 610 | 22 104 | 328 703 | 146 669 | 7 169 | 87 361 |
| 1979 | 316 | 6 153 | 12 987 | 73 444 | 4 489 | 210 619 | 21 687 | 26 018 | 385 936 | 174 308 | 7 460 | 98 286 |
| 1980 | 322 | 5 456 | 11 500 | 70 449 | 4 885 | 188 733 | 25 079 | 23 782 | 362 780 | 167 877 | 6 668 | 94 941 |
| 1981 | 322 | 5 870 | 12 321 | 84 993 | 6 057 | 220 011 | 23 172 | 30 553 | 428 796 | 201 102 | 7 076 | 111 843 |
| 1982 | 343 | 5 335 | 11 101 | 81 659 | 7 013 | 197 830 | 30 441 | 27 618 | 395 613 | 187 948 | 6 481 | 109 655 |
| 1983 | 375 | 5 839 | 12 318 | 98 421 | 7 638 | 253 207 | 26 876 | 32 649 | 515 080 | 260 007 | 6 778 | 133 643 |
| 1984 | 381 | 6 074 | 12 873 | 108 291 | 8 659 | 211 391 | 30 558 | 34 696 | 576 147 | 239 230 | 7 403 | 146 916 |
| 1985 | 407 | 7 746 | 17 054 | 143 216 | 10 082 | 368 587 | 34 143 | 33 161 | 744 025 | 364 379 | 9 140 | 186 464 |
| 1986 | 443 | 9 957 | 21 748 | 192 141 | 11 730 | 503 981 | 33 164 | 42 742 | 998 968 | 492 837 | 11 440 | 244 215 |
| 1987P | 416 | n/a | n/a | n/a | 12 754 | n/a | n/a | n/a | n/a | n/a | 13 447 | 299 661 |

P - preliminary

Sources: Statistics Canada, Catalogue No. 35-205 and 35-2508.

Table 7.8. Principal statistics for the wooden box and pallet industry in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | Total activity | | |
|------------------------|--------------------------------|--------------------------|-------|------------------------------|--------------------------------|------------------|---------|--|-----------|----------------------|----------------|--------|--------|
| Year | Production and related workers | | | Cost of fuel and electricity | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manufacture | Employees | Value added (\$'000) | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | | | Opening (\$'000) | Closing | | | | | | |
| | | | | | | | | | | | (No.) | | (No.) |
| 1970 | 75 | 1 512 | 3 161 | 8 305 | 444 | 16 032 | 983 | 1 176 | 35 074 | 18 791 | 1 838 | 11 164 | 18 749 |
| 1971 | 80 | 1 538 | 3 215 | 8 597 | 545 | 16 464 | 1 178 | 1 248 | 35 393 | 18 454 | 1 856 | 11 437 | 18 542 |
| 1972 | 75 | 1 572 | 3 299 | 8 785 | 539 | 17 853 | 1 165 | 1 006 | 37 512 | 18 961 | 1 896 | 11 627 | 18 952 |
| 1973 | 81 | 1 676 | 3 525 | 10 331 | 641 | 22 197 | 896 | 1 421 | 45 829 | 23 515 | 2 002 | 13 645 | 23 433 |
| 1974 | 89 | 1 841 | 3 915 | 13 182 | 904 | 35 343 | 1 503 | 1 851 | 64 955 | 29 056 | 2 221 | 17 305 | 28 920 |
| 1975 | 90 | 1 944 | 4 124 | 16 010 | 954 | 36 634 | 1 837 | 1 863 | 70 530 | 32 968 | 2 338 | 21 899 | 32 855 |
| 1976 | 86 | 1 855 | 3 929 | 16 281 | 1 124 | 36 635 | 1 916 | 2 070 | 74 264 | 36 659 | 2 240 | 21 736 | 36 448 |
| 1977 | 77 | 1 916 | 4 044 | 21 293 | 1 393 | 46 866 | 2 002 | 2 280 | 99 957 | 51 976 | 2 284 | 28 659 | 51 840 |
| 1978 | 77 | 1 878 | 3 947 | 20 006 | 1 478 | 53 651 | 2 287 | 3 286 | 98 567 | 44 437 | 2 312 | 26 311 | 44 436 |
| 1979 | 88 | 2 146 | 4 502 | 27 865 | 1 572 | 70 620 | 3 321 | 3 263 | 126 354 | 54 104 | 2 570 | 34 497 | 54 230 |
| 1980 | 89 | 1 846 | 3 837 | 22 782 | 1 531 | 64 733 | 3 396 | 3 391 | 120 392 | 54 122 | 2 250 | 30 336 | 53 939 |
| 1981 | 89 | 1 688 | 3 522 | 26 336 | 1 740 | 72 780 | 3 305 | 3 168 | 135 109 | 60 452 | 2 079 | 35 374 | 60 372 |
| 1982 | 102 | 1 637 | 3 426 | 24 435 | 2 526 | 60 336 | 3 449 | 3 602 | 118 734 | 56 024 | 2 013 | 33 079 | 55 927 |
| 1983 | 91 | 1 187 | 2 466 | 16 755 | 1 860 | 47 341 | 3 335 | 3 326 | 85 078 | 35 867 | 1 374 | 21 029 | 36 050 |
| 1984 | 96 | 1 256 | 2 612 | 18 713 | 2 202 | 59 199 | 3 370 | 3 797 | 105 158 | 44 183 | 1 445 | 23 293 | 44 169 |
| 1985 | 90 | 1 346 | 2 698 | 20 354 | 2 392 | 65 147 | 4 431 | 5 525 | 112 934 | 46 485 | 1 552 | 26 050 | 46 433 |
| 1986 | 96 | 1 370 | 2 782 | 20 785 | 2 419 | 65 938 | 4 198 | 3 935 | 119 474 | 50 856 | 1 609 | 27 361 | 51 379 |
| 1987 ^p | 93 | n/a | n/a | n/a | 2 280 | n/a | n/a | n/a | n/a | n/a | 1 796 | 31 562 | 56 584 |
| - preliminary | | | | | | | | | | | | | |

P - preliminary

Sources: Statistics Canada, Catalogue Nos. 35-209, 35-208 and 35-2508.

Table 7.9. Principal statistics for the coffin and casket industry in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | Total activity | | | |
|------------------------|---------------------------|--------------------------------|-------|--------------------------------|--------------------------------|------------------|---------|---|-------------|-----------------------------------|----------------------|-------|-------|
| Year | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and elec-tri-city | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture | Value added | Employees | | | |
| | | Person hours paid ('000) | Wages | | | Opening (\$'000) | Closing | | | Salaries and wages added (\$'000) | Value added (\$'000) | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1970 | 9 | 280 | 598 | 1 353 | 78 | 1 938 | 575 | 505 | 4 846 | 2 760 | 393 | 2 148 | 2 809 |
| 1971 | 9 | 279 | 602 | 1 479 | 78 | 1 789 | 705 | 749 | 4 768 | 2 944 | 371 | 2 280 | 3 034 |
| 1972 | 9 | 253 | 529 | 1 550 | 74 | 2 043 | 749 | 606 | 4 953 | 2 700 | 343 | 2 475 | 2 785 |
| 1973 | 9 | 238 | 477 | 1 351 | 112 | 2 219 | 660 | 739 | 5 044 | 2 791 | 311 | 2 182 | 2 795 |
| 1974 | 9 | 235 | 472 | 1 419 | 115 | 2 286 | 739 | 601 | 5 359 | 2 819 | 321 | 2 242 | 2 857 |
| 1975 | 9 | 213 | 451 | 1 595 | 113 | 2 275 | 504 | 725 | 5 382 | 3 216 | 264 | 2 219 | 3 311 |
| 1976 | 8 | 212 | 445 | 1 713 | 147 | 1 859 | 692 | 365 | 5 339 | 3 005 | 252 | 2 317 | 3 004 |
| 1977 | 7 | 184 | 388 | 1 606 | 92 | 1 999 | 365 | 321 | 5 145 | 3 010 | 220 | 2 108 | 3 007 |
| 1978 | 7 | 170 | 374 | 1 764 | 128 | 2 631 | 321 | 571 | 6 027 | 3 518 | 214 | 2 689 | 3 487 |
| 1979 | 7 | 156 | 330 | 1 718 | 113 | 2 687 | 615 | 774 | 6 071 | 3 431 | 190 | 2 296 | 3 390 |
| 1980 | 8 | 153 | 320 | 1 783 | 99 | 3 012 | 596 | 779 | 6 372 | 3 444 | 185 | 2 370 | 3 426 |
| 1981 | 8 | 154 | 321 | 2 159 | 126 | 3 471 | 779 | 1 137 | 6 986 | 3 747 | 189 | 2 843 | 3 726 |
| 1982 | 8 | 135 | 259 | 1 821 | 125 | 2 787 | 644 | 230 | 6 796 | 3 469 | 155 | 2 402 | 3 452 |
| 1983 | 6 | 146 | 274 | 2 118 | 135 | 3 159 | 225 | 440 | 6 722 | 3 644 | 167 | 2 762 | 3 620 |
| 1984 | 6 | 133 | 256 | 2 138 | 146 | 3 125 | a | a | 7 387 | 4 131 | 148 | 2 811 | 4 113 |
| 1985 | 5 | 159 | 343 | 2 732 | 146 | 4 312 | a | a | 8 861 | 4 444 | 173 | 3 416 | 4 411 |
| 1986 | 3 | a | a | a | a | a | a | a | a | a | a | a | a |
| 1987P | 3 | a | a | a | a | a | a | a | a | a | a | a | a |

- confidential

a - confidential

p - preliminary

Table 7.10. Principal statistics for other wood industries in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | | | | Total activity | |
|------------------------|---------------------------|--------------------------------|-------|--------|--------------------------------|--------------------------------|-------------------------------|---------|---|-------------|-----------|--------------------------|-----------------------------------|----------------|--|
| Year | Estab-lish-ments (No.) | Production and related workers | | | Cost of fuel and elec-tri-city | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture | Value added | Employees | | Value added -----(\$'000)----- | | |
| | | Person hours paid ('000) | Wages | (No.) | | | Opening -----(\$'000)----- | Closing | | | (No.) | Salaries and wages added | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1970 | 78 | 1 421 | 3 011 | 7 656 | 503 | 14 932 | 2 681 | 2 562 | 30 294 | 14 740 | 1 645 | 9 445 | 14 801 | | |
| 1971 | 77 | 1 495 | 3 159 | 8 746 | 892 | 17 925 | 2 535 | 2 716 | 35 892 | 17 256 | 1 742 | 10 726 | 17 396 | | |
| 1972 | 75 | 1 591 | 3 422 | 10 044 | 1 066 | 21 998 | 2 698 | 3 002 | 44 990 | 22 231 | 1 876 | 12 427 | 22 340 | | |
| 1973 | 70 | 1 820 | 3 805 | 12 057 | 1 325 | 25 625 | 2 949 | 3 322 | 56 782 | 30 206 | 2 162 | 15 366 | 30 416 | | |
| 1974 | 69 | 1 750 | 3 568 | 12 974 | 1 648 | 27 616 | 3 120 | 4 326 | 61 281 | 33 224 | 2 045 | 16 252 | 33 858 | | |
| 1975 | 73 | 1 900 | 3 877 | 16 347 | 2 153 | 34 824 | 4 816 | 5 984 | 67 708 | 31 899 | 2 232 | 20 112 | 32 651 | | |
| 1976 | 65 | 2 097 | 4 224 | 20 396 | 4 360 | 43 991 | 6 017 | 9 313 | 83 912 | 38 858 | 2 448 | 25 473 | 39 360 | | |
| 1977 | 59 | 2 253 | 4 646 | 26 596 | 6 227 | 61 288 | 9 277 | 8 818 | 122 412 | 54 437 | 2 601 | 32 243 | 54 742 | | |
| 1978 | 74 | 2 662 | 5 564 | 33 078 | 7 925 | 80 276 | 8 901 | 9 479 | 159 633 | 72 010 | 3 046 | 39 921 | 72 457 | | |
| 1979 | 84 | 2 712 | 5 692 | 36 635 | 8 766 | 103 328 | 9 957 | 15 683 | 194 698 | 88 329 | 3 107 | 44 796 | 89 703 | | |
| 1980 | 100 | 2 425 | 5 175 | 38 698 | 9 060 | 106 057 | 15 510 | 14 755 | 193 153 | 77 282 | 2 835 | 47 424 | 79 789 | | |
| 1981 | 102 | 2 390 | 4 990 | 43 406 | 11 484 | 123 401 | 14 980 | 17 742 | 223 615 | 91 492 | 2 765 | 52 789 | 94 708 | | |
| 1982 | 99 | 1 981 | 3 764 | 34 295 | 10 837 | 98 828 | 16 545 | 13 007 | 184 918 | 71 715 | 2 345 | 43 532 | 72 666 | | |
| 1983 | 97 | 2 103 | 4 244 | 43 253 | 14 441 | 137 618 | 11 081 | 11 809 | 241 811 | 90 483 | 2 464 | 53 337 | 93 045 | | |
| 1984 | 106 | 2 385 | 5 181 | 53 060 | 16 738 | 172 998 | 11 527 | 16 347 | 299 192 | 114 277 | 2 782 | 65 673 | 116 647 | | |
| 1985 | 118 | 2 418 | 5 386 | 53 393 | 16 161 | 168 738 | 13 624 | 11 967 | 301 302 | 114 744 | 2 794 | 65 643 | 117 256 | | |
| 1986 | 128 | 2 635 | 5 807 | 58 211 | 14 862 | 204 181 | 16 326 | 20 186 | 359 342 | 144 160 | 2 983 | 69 485 | 145 284 | | |
| 1987P | 128 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |

Note: Figures for SIC 2599 are confidential; therefore, this summary is not available.

P - preliminary

Sources: Statistics Canada, Catalogue No. 35-208 and 35-250B.

Table 7.11. Principal statistics for paper and allied industries in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | | | | |
|-------------------|--------------------------------|--------------------------|--------|----------------------------------|---------|--------------------------------|---------|-----------|-----------|--|----------------|----------------------|-----------|--|-----------------------------------|-------|
| | Production and related workers | | | Cost of fuel and elec- tri- city | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manu- facture | | Value added (\$'000) | | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages | Opening | Closing | Opening | Closing | Opening | Closing | Value added | | | | | | |
| | | | | | | | | | | | (\$'000) | | (\$'000) | | Salaries and wages added (\$'000) | |
| | | | | | | | | | | | (\$'000) | | (\$'000) | | | (No.) |
| 1970 | 283 | 33 547 | 72 136 | 240 472 | 58 671 | 672 275 | 74 217 | 84 048 | 1 313 911 | 592 793 | 44 894 | 346 429 | 614 506 | | | |
| 1971 | 289 | 32 810 | 69 810 | 249 840 | 64 119 | 697 061 | 83 717 | 85 066 | 1 367 409 | 607 578 | 43 867 | 359 155 | 627 387 | | | |
| 1972 | 300 | 33 768 | 72 013 | 279 206 | 69 169 | 753 533 | 85 576 | 88 694 | 1 484 008 | 664 425 | 44 580 | 395 818 | 681 961 | | | |
| 1973 | 289 | 34 795 | 73 502 | 313 220 | 75 145 | 861 170 | 89 232 | 81 688 | 1 748 335 | 805 719 | 45 391 | 436 484 | 822 197 | | | |
| 1974 | 294 | 36 362 | 76 156 | 366 745 | 93 673 | 1 175 923 | 82 491 | 121 487 | 2 429 739 | 1 199 139 | 47 404 | 512 825 | 1 221 616 | | | |
| 1975 | 302 | 33 965 | 62 456 | 336 145 | 93 261 | 1 064 969 | 121 277 | 111 584 | 2 126 441 | 958 517 | 45 178 | 497 083 | 999 360 | | | |
| 1976 | 301 | 34 505 | 73 464 | 434 420 | 145 410 | 1 291 516 | 112 726 | 140 903 | 2 459 739 | 1 050 989 | 45 645 | 612 501 | 1 082 376 | | | |
| 1977 | 287 | 33 233 | 68 858 | 492 123 | 197 186 | 1 440 021 | 135 189 | 138 796 | 2 826 617 | 1 193 017 | 43 488 | 681 113 | 1 207 415 | | | |
| 1978 | 319 | 34 819 | 71 961 | 541 123 | 228 829 | 1 616 288 | 136 907 | 143 781 | 3 145 697 | 1 307 455 | 45 209 | 747 394 | 1 317 821 | | | |
| 1979 | 334 | 35 811 | 74 456 | 600 095 | 252 576 | 2 007 803 | 145 722 | 177 298 | 3 872 205 | 1 643 403 | 46 172 | 827 101 | 1 661 591 | | | |
| 1980 | 349 | 37 084 | 75 711 | 664 390 | 279 530 | 2 368 722 | 177 790 | 200 523 | 4 598 977 | 1 973 456 | 47 861 | 926 779 | 1 992 117 | | | |
| 1981 | 342 | 36 277 | 75 200 | 749 579 | 324 780 | 2 702 821 | 201 429 | 220 790 | 5 129 828 | 2 121 589 | 47 381 | 1 044 810 | 2 136 084 | | | |
| 1982 | 347 | 33 013 | 67 728 | 743 848 | 351 385 | 2 596 915 | 217 100 | 239 596 | 4 841 076 | 1 915 271 | 43 917 | 1 078 919 | 1 939 371 | | | |
| 1983 | 301 | 31 175 | 64 830 | 789 180 | 381 789 | 2 676 283 | 200 899 | 209 140 | 5 041 628 | 1 993 124 | 41 001 | 1 110 513 | 2 010 011 | | | |
| 1984 | 311 | 31 806 | 66 009 | 848 873 | 408 817 | 3 044 817 | 219 185 | 292 206 | 5 851 884 | 2 453 274 | 41 690 | 1 181 223 | 2 466 296 | | | |
| 1985 | 317 | 31 251 | 65 896 | 893 031 | 404 954 | 3 186 653 | 272 116 | 295 526 | 6 036 236 | 2 468 039 | 40 990 | 1 245 332 | 2 476 824 | | | |
| 1986 | 329 | 31 782 | 67 127 | 945 229 | 392 697 | 3 375 793 | a | a | 6 529 729 | 2 779 910 | 41 429 | 1 312 968 | 2 789 764 | | | |
| 1987 ^p | 322 | n/a | n/a | n/a | 393 658 | n/a | n/a | n/a | n/a | n/a | 42 316 | 1 364 278 | 3 289 695 | | | |

a - confidential data for SIC 2714, 2719 and 2799

p - preliminary

Table 7.12. Principal statistics for pulp and paper industries in Ontario, 1970-1987.

| Manufacturing activity | | | | | | | | | | | | | Total activity | |
|------------------------|---------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|--|--|-----------------------------------|-----------|--|--------------------|---|--|--|
| Year | Estab-lish-ments (No.) | Production and related workers | | Person hours paid ('000) | Wages ----- -----('000) | Cost of fuel and elec- tri- city | Cost of materials and supplies | Inventory | | Value of shipments of goods of manu- facture ----- -----(\$'000) | Employees (No.) | Salaries and wages added ----- -----(\$'000) | Value added ----- -----(\$'000) | |
| | | | | | | | | Opening ----- -----(\$'000) | Closing | | | | | |
| | | | | | | | | | | | | | | |
| 1970 | 36 | 17 832 | 38 512 | 143 157 | 53 295 | 341 995 | 23 555 | 29 371 | 732 424 | 342 949 | 22 201 | 188 189 | 346 406 | |
| 1971 | 37 | 17 132 | 35 946 | 144 593 | 58 158 | 339 829 | 29 315 | 29 387 | 728 289 | 330 373 | 21 305 | 190 348 | 331 835 | |
| 1972 | 37 | 16 970 | 36 224 | 157 759 | 61 944 | 358 824 | 29 387 | 27 763 | 778 067 | 355 675 | 21 044 | 206 929 | 356 799 | |
| 1973 | 37 | 17 326 | 36 562 | 174 969 | 67 593 | 406 916 | 27 788 | 20 574 | 932 061 | 450 338 | 21 271 | 227 160 | 451 839 | |
| 1974 | 37 | 17 753 | 37 848 | 203 864 | 84 395 | 556 363 | 20 062 | 30 814 | 1 347 587 | 717 581 | 21 909 | 265 286 | 721 076 | |
| 1975 | 37 | 16 417 | 26 570 | 164 662 | 82 775 | 440 049 | 30 866 | 26 265 | 1 031 209 | 503 784 | 20 912 | 233 645 | 517 889 | |
| 1976 | 37 | 17 302 | 37 757 | 237 708 | 131 311 | 579 398 | 26 131 | 40 663 | 1 236 886 | 540 709 | 21 693 | 315 867 | 548 492 | |
| 1977 | 37 | 17 329 | 35 774 | 295 510 | 181 396 | 740 843 | 40 719 | 41 700 | 1 603 037 | 681 778 | 21 604 | 383 016 | 688 718 | |
| 1978 | 37 | 17 797 | 36 790 | 320 308 | 210 538 | 828 876 | 40 955 | 42 412 | 1 780 255 | 742 298 | 22 177 | 419 289 | 744 923 | |
| 1979 | 37 | 17 881 | 37 413 | 348 539 | 231 900 | 1 029 954 | 42 475 | 48 349 | 2 233 098 | 977 118 | 22 539 | 461 813 | 981 529 | |
| 1980 | 36 | 18 328 | 37 410 | 382 238 | 254 886 | 1 159 781 | 48 322 | 55 843 | 2 614 443 | 1 207 296 | 23 105 | 510 279 | 1 215 084 | |
| 1981 | 36 | 17 879 | 37 407 | 426 891 | 294 149 | 1 290 917 | 54 231 | 65 737 | 2 847 780 | 1 274 219 | 22 776 | 570 463 | 1 275 857 | |
| 1982 | 36 | 16 811 | 34 649 | 439 886 | 317 107 | 1 222 136 | 64 898 | 82 775 | 2 593 734 | 1 072 368 | 21 826 | 610 703 | 1 074 068 | |
| 1983 | 34 | 16 148 | 34 090 | 476 606 | 349 823 | 1 322 017 | 83 833 | 74 861 | 2 818 209 | 1 137 397 | 20 708 | 644 317 | 1 134 029 | |
| 1984 | 34 | 15 867 | 33 666 | 497 361 | 372 224 | 1 514 710 | 74 049 | 109 981 | 3 362 436 | 1 511 436 | 20 447 | 672 579 | 1 509 372 | |
| 1985 | 35 | 15 272 | 32 804 | 514 054 | 365 282 | 1 553 015 | 98 615 | 96 622 | 3 441 868 | 1 458 577 | 19 831 | 701 649 | 1 450 985 | |
| 1986 | 35 | 15 305 | 32 590 | 536 384 | 352 186 | 1 636 170 | a | a | 3 671 341 | 1 686 144 | 19 942 | 730 139 | 1 680 224 | |
| 1987P | 36 | n/a | n/a | n/a | 350 136 | n/a | n/a | n/a | n/a | n/a | 19 873 | 747 588 | 2 090 655 | |

a - confidential
p - preliminary

Sources: Statistics Canada. Catalogue No. 36-204, 36-250B and 31-203.

Table 7.13. Principal statistics for asphalt roofing manufacturers in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | |
|-------|--------------------------------|--------------------------|--------|------------------------------|---------|--------------------------------|--------|------------------|------------------|--|----------------------|-----------|-----------------------------------|
| | Production and related workers | | | Cost of fuel and electricity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manufacture | | Employees | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | (No.) | Wages ('000) | | | | Opening (\$'000) | Closing (\$'000) | | Value added (\$'000) | (No.) | Salaries and wages added (\$'000) |
| | | | | | | | | | | | | | |
| 1970 | 4 | 392 | 1 212 | 222 | 5 573 | 416 | 511 | 10 979 | 5 278 | 195 | 1 451 | 5 324 | 1 |
| 1971 | 4 | 444 | 1 489 | 292 | 7 613 | 511 | 557 | 15 119 | 7 259 | 229 | 1 767 | 7 426 | 80 |
| 1972 | 4 | 522 | 2 140 | 342 | 8 348 | 824 | 844 | 17 616 | 8 947 | 268 | 2 460 | 9 137 | 1 |
| 1973 | 4 | 572 | 2 313 | 459 | 9 847 | 844 | 497 | 19 330 | 8 677 | 302 | 2 661 | 9 128 | |
| 1974 | 4 | 582 | 2 515 | 544 | 10 817 | 522 | 1 189 | 22 275 | 11 580 | 318 | 2 954 | 12 209 | |
| 1975 | 4 | 626 | 3 119 | 799 | 15 855 | 1 163 | 920 | 28 860 | 11 963 | 334 | 3 751 | 12 721 | |
| 1976 | 4 | 645 | 3 590 | 1 053 | 22 125 | 841 | 2 207 | 37 311 | 15 499 | 371 | 4 593 | 15 869 | |
| 1977 | 4 | 661 | 4 075 | 1 392 | 26 425 | 2 207 | 3 843 | 44 185 | 18 003 | 397 | 5 289 | 18 195 | |
| 1978 | 5 | 624 | 4 036 | 1 073 | 31 166 | 3 694 | 1 828 | 53 478 | 19 372 | 396 | 5 526 | 19 476 | |
| 1979 | 5 | 692 | 4 847 | 1 527 | 43 006 | 1 859 | 5 266 | 66 559 | 25 433 | 439 | 6 695 | 26 264 | |
| 1980 | 5 | 687 | 5 660 | 1 622 | 55 186 | 5 666 | 6 404 | 88 341 | 32 271 | 427 | 7 659 | 32 741 | |
| 1981 | 5 | 685 | 6 093 | 1 838 | 64 144 | 6 768 | 3 194 | 102 732 | 33 176 | 458 | 8 486 | 33 943 | |
| 1982 | 5 | 667 | 6 250 | 2 222 | 61 236 | 3 223 | 4 401 | 96 024 | 33 743 | 452 | 9 066 | 35 455 | |
| 1983 | 5 | 670 | 6 592 | 2 525 | 83 598 | 4 652 | 7 606 | 111 652 | 28 483 | 385 | 7 965 | 28 635 | |
| 1984 | 6 | 922 | 9 068 | 4 292 | 94 746 | 8 425 | 8 867 | 144 432 | 45 835 | 537 | 10 969 | 47 242 | |
| 1985 | 7 | 986 | 10 469 | 4 826 | 107 835 | 10 379 | 11 984 | 107 245 | 59 187 | 564 | 13 243 | 61 291 | |
| 1986 | 7 | 1 111 | 13 214 | 5 556 | 108 869 | 11 983 | 9 494 | 202 220 | 85 308 | 665 | 17 376 | 88 327 | |
| 1987p | 7 | n/a | n/a | 5 899 | n/a | n/a | n/a | n/a | n/a | 674 | 18 258 | 104 020 | |

p - preliminary

Sources: Statistics Canada, Catalogue Nos. 36-205, 36-215 and 36-2508.

Table 7.14. Principal statistics for paper, box and bag manufacturers in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | | Total activity | |
|-------|--------------------------------|--------------------------|-------------|------------------------------|--------------------------------|--------------------------------|-------------------|--|-------------|--|-----------------------------------|----------------|----------------------|
| | Production and related workers | | | Cost of fuel and electricity | | Cost of materials and supplies | | Inventory | | Value of shipments of goods of own manufacture | | Employees | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages (No.) | Cost of fuel and electricity | Cost of materials and supplies | Inventory Opening | Inventory Closing | Value of shipments of goods of own manufacture | Value added | (No.) | Salaries and wages added (\$'000) | (No.) | Value added (\$'000) |
| | | | | | | | | | | | | | |
| 1970 | 131 | 8 471 | 18 222 | 53 303 | 2 804 | 180 242 | 21 121 | 22 536 | 307 386 | 125 751 | 11 628 | 80 945 | 125 777 |
| 1971 | 129 | 8 569 | 18 213 | 57 902 | 2 986 | 195 894 | 22 453 | 24 189 | 334 373 | 137 229 | 11 612 | 86 836 | 137 564 |
| 1972 | 133 | 9 077 | 19 541 | 66 758 | 3 598 | 214 739 | 24 325 | 26 423 | 364 261 | 148 019 | 12 132 | 97 515 | 148 901 |
| 1973 | 131 | 9 536 | 20 334 | 75 721 | 3 690 | 249 834 | 26 606 | 25 502 | 428 187 | 174 805 | 12 653 | 109 586 | 176 350 |
| 1974 | 138 | 10 057 | 20 702 | 89 082 | 4 484 | 341 870 | 25 678 | 39 184 | 570 877 | 238 029 | 13 236 | 129 431 | 241 765 |
| 1975 | 145 | 9 346 | 19 114 | 91 868 | 5 186 | 344 774 | 38 128 | 34 018 | 575 004 | 220 933 | 12 370 | 133 996 | 227 836 |
| 1976 | 146 | 9 226 | 19 299 | 108 747 | 7 041 | 388 695 | 34 447 | 40 271 | 652 092 | 262 179 | 12 244 | 154 343 | 265 691 |
| 1977 | 140 | 8 827 | 18 490 | 113 361 | 7 721 | 386 710 | 38 231 | 37 153 | 649 811 | 254 303 | 11 671 | 161 478 | 256 614 |
| 1978 | 153 | 9 303 | 19 368 | 124 123 | 8 969 | 431 365 | 36 297 | 40 900 | 724 944 | 289 250 | 12 163 | 174 463 | 290 744 |
| 1979 | 164 | 10 041 | 20 938 | 142 291 | 10 671 | 546 331 | 41 984 | 51 760 | 877 731 | 330 505 | 12 844 | 196 343 | 334 390 |
| 1980 | 172 | 10 462 | 21 385 | 157 638 | 12 483 | 617 940 | 51 613 | 61 378 | 996 106 | 375 445 | 13 350 | 219 893 | 378 310 |
| 1981 | 168 | 9 980 | 20 584 | 176 658 | 15 583 | 730 796 | 58 245 | 62 691 | 1 153 786 | 411 852 | 12 999 | 249 170 | 415 172 |
| 1982 | 171 | 8 730 | 17 610 | 162 677 | 16 194 | 687 158 | 57 943 | 61 636 | 1 121 204 | 421 545 | 11 441 | 236 530 | 430 262 |
| 1983 | 130 | 7 521 | 15 352 | 159 132 | 13 858 | 618 024 | 42 345 | 48 995 | 997 137 | 371 904 | 9 608 | 219 929 | 369 939 |
| 1984 | 134 | 7 801 | 16 134 | 178 179 | 15 040 | 718 984 | 47 470 | 57 068 | 1 135 582 | 411 157 | 9 995 | 243 398 | 409 428 |
| 1985 | 133 | 7 878 | 16 278 | 192 985 | 16 862 | 764 261 | 57 867 | 64 090 | 1 206 406 | 431 508 | 10 042 | 264 051 | 430 694 |
| 1986 | 137 | 7 990 | 16 866 | 206 837 | 16 578 | 821 826 | 62 689 | 63 368 | 1 295 858 | 458 131 | 10 048 | 276 998 | 460 099 |
| 1987P | 136 | n/a | n/a | n/a | 18 105 | n/a | n/a | n/a | n/a | n/a | 10 647 | 300 118 | 515 619 |

P - preliminary

Sources: Statistics Canada. Catalogue Nos. 36-207, 36-213, 36-214, 36-216 and 36-250B.

Table 7.15. Principal statistics for other converted paper products industries in Ontario, 1970-1987.

| Year | Manufacturing activity | | | | | | | | | | Total activity | | |
|-------|---------------------------|--------------------------------|--------|--------------------------------|--------------------------------|-----------|---------------------|---|-----------|-----------------------------------|----------------------|----------|---------|
| | Estab-lish-ments (No.) | Production and related workers | | Cost of fuel and elec-tri-city | Cost of materials and supplies | Inventory | | Value of shipments of goods of own manu-facture added | Employees | | Value added (\$'000) | | |
| | | Person hours paid ('000) | Wages | | | Opening | Closing | | (No.) | Salaries and wages added (\$'000) | | | |
| | | | | | | | | | | | | (\$'000) | (No.) |
| 1970 | 112 | 7 082 | 15 012 | 42 801 | 2 348 | 144 464 | 29 125 | 31 630 | 263 123 | 118 815 | 10 870 | 75 844 | 136 998 |
| 1971 | 119 | 7 105 | 15 207 | 45 857 | 2 683 | 153 725 | 31 438 | 30 933 | 289 628 | 132 716 | 10 721 | 80 205 | 150 563 |
| 1972 | 126 | 7 494 | 15 725 | 52 548 | 3 285 | 171 621 | 31 040 | 33 664 | 324 065 | 151 783 | 11 136 | 88 915 | 167 123 |
| 1973 | 117 | 7 672 | 16 033 | 60 216 | 3 404 | 194 574 | 33 994 | 35 115 | 368 756 | 171 898 | 11 165 | 97 078 | 184 878 |
| 1974 | 115 | 8 282 | 17 024 | 71 285 | 4 250 | 266 871 | 36 229 | 50 300 | 488 999 | 231 949 | 11 941 | 115 154 | 246 568 |
| 1975 | 116 | 7 913 | 16 145 | 76 496 | 4 500 | 264 291 | 51 120 | 50 381 | 491 367 | 221 838 | 11 562 | 125 690 | 240 914 |
| 1976 | 114 | 7 681 | 15 763 | 84 374 | 6 006 | 301 297 | 51 307 | 57 762 | 533 449 | 232 601 | 11 367 | 137 697 | 252 700 |
| 1977 | 106 | 6 773 | 13 933 | 79 176 | 6 677 | 286 043 | 54 032 | 56 100 | 529 585 | 238 934 | 9 816 | 132 330 | 243 811 |
| 1978 | 124 | 7 413 | 15 179 | 92 665 | 8 249 | 324 880 | 55 961 | 58 641 | 587 020 | 256 570 | 10 473 | 148 113 | 262 678 |
| 1979 | 128 | 7 544 | 15 412 | 104 418 | 8 477 | 388 513 | 59 404 | 71 923 | 694 816 | 310 346 | 10 350 | 162 250 | 319 408 |
| 1980 | 136 | 7 972 | 16 228 | 118 846 | 10 538 | 535 797 | 72 189 | 76 898 | 900 066 | 358 439 | 10 978 | 188 940 | 365 977 |
| 1981 | 133 | 8 065 | 16 560 | 139 937 | 13 211 | 616 964 | 82 185 | 89 168 | 1 025 532 | 402 341 | 11 148 | 216 691 | 411 112 |
| 1982 | 135 | 7 139 | 14 784 | 135 035 | 15 862 | 626 385 | 91 036 | 90 784 | 1 030 114 | 387 615 | 10 148 | 222 593 | 399 586 |
| 1983 | 132 | 7 179 | 14 721 | 146 848 | 15 582 | 652 644 | 70 069 | 77 678 | 1 114 631 | 455 339 | 10 300 | 238 301 | 477 408 |
| 1984 | 137 | 7 679 | 15 287 | 164 266 | 17 262 | 716 379 | 89 241 | 116 290 | 1 209 437 | 484 845 | 10 711 | 254 278 | 500 254 |
| 1985 | 142 | 7 634 | 15 828 | 175 523 | 17 984 | 761 542 | 105 255 | 122 830 | 1 280 717 | 518 767 | 10 553 | 266 389 | 533 834 |
| 1986 | 150 | 7 963 | 16 560 | 188 795 | 18 378 | 808 929 | 81 222 ^a | 92 452 ^a | 1 360 310 | 550 326 | 10 774 | 288 457 | 561 113 |
| 1987P | 143 | n/a | n/a | n/a | 19 518 | n/a | n/a | n/a | n/a | n/a | 11 126 | 298 315 | 579 401 |

a - confidential data for SIC 2799

P - preliminary

Sources: Statistics Canada, Catalogue Nos. 36-206, 36-215 and 36-250B.

Table 7.16. Principal statistics for all manufacturing industries in Ontario, 1970-1986.

| Year | Manufacturing activity | | | | | | | | | | Total activity | |
|------|--------------------------------|--------------------------|----------------|------------------------------|---|--|-------------|-----------------------------------|----------------------|------------|----------------|--|
| | Production and related workers | | | | | Value of shipments of goods of own manufacture | | | | | | |
| | Estab-lish-ments (No.) | Person hours paid ('000) | Wages (\$'000) | Cost of fuel and electricity | Cost of materials and supplies (\$'000) | Value of shipments of goods of own manufacture | (No.) | Salaries and wages added (\$'000) | Value added (\$'000) | | | |
| | | | | | | | | | | | | |
| 1970 | 12 736 | 562 858 | 1 182 424 | 3 711 437 | 417 851 | 13 226 000 | 24 009 636 | 10 524 756 | 806 638 | 5 942 507 | 11 459 488 | |
| 1971 | 12 740 | 563 864 | 1 183 045 | 4 020 624 | 455 775 | 14 250 680 | 26 270 629 | 11 596 471 | 800 047 | 6 326 544 | 12 537 204 | |
| 1972 | 12 589 | 583 932 | 1 232 655 | 4 507 383 | 491 741 | 16 020 243 | 29 225 025 | 12 869 823 | 821 614 | 6 989 621 | 14 050 099 | |
| 1973 | 12 397 | 616 935 | 1 298 651 | 5 186 725 | 554 598 | 19 085 501 | 34 300 652 | 15 030 331 | 861 767 | 7 947 955 | 16 416 698 | |
| 1974 | 12 662 | 632 850 | 1 325 495 | 5 914 093 | 692 739 | 23 577 721 | 41 404 361 | 18 128 835 | 883 730 | 9 074 122 | 19 920 508 | |
| 1975 | 12 245 | 612 745 | 1 263 962 | 6 316 577 | 791 497 | 25 560 075 | 44 422 821 | 18 357 809 | 850 291 | 9 673 050 | 20 122 934 | |
| 1976 | 11 879 | 616 341 | 1 284 244 | 7 254 035 | 1 065 373 | 28 660 762 | 49 646 124 | 20 362 370 | 851 811 | 10 971 295 | 22 095 600 | |
| 1977 | 11 414 | 605 796 | 1 262 248 | 7 898 974 | 1 310 664 | 32 256 171 | 55 590 930 | 22 554 740 | 843 328 | 11 981 022 | 24 271 425 | |
| 1978 | 13 079 | 633 499 | 1 322 642 | 8 830 505 | 1 536 347 | 38 110 181 | 65 111 869 | 25 910 549 | 880 806 | 13 369 952 | 27 787 323 | |
| 1979 | 14 104 | 660 652 | 1 378 883 | 10 019 377 | 1 738 968 | 45 394 074 | 76 220 169 | 30 327 537 | 913 612 | 15 100 327 | 32 746 923 | |
| 1980 | 14 454 | 648 765 | 1 341 611 | 10 696 759 | 1 932 356 | 48 925 336 | 82 171 108 | 32 246 690 | 909 964 | 16 454 317 | 34 811 414 | |
| 1981 | 14 553 | 643 209 | 1 336 362 | 11 836 755 | 2 357 020 | 55 853 556 | 94 061 116 | 37 053 129 | 911 810 | 18 460 387 | 39 887 789 | |
| 1982 | 14 822 | 589 649 | 1 211 764 | 11 819 718 | 2 558 412 | 55 969 857 | 93 939 308 | 35 163 603 | 848 403 | 18 949 786 | 38 130 960 | |
| 1983 | 14 763 | 588 314 | 1 222 821 | 12 794 971 | 2 800 441 | 61 202 305 | 103 920 438 | 39 990 664 | 838 490 | 20 265 434 | 43 376 709 | |
| 1984 | 15 263 | 627 517 | 1 330 996 | 14 669 948 | 3 088 475 | 72 327 466 | 121 726 422 | 47 051 974 | 880 927 | 22 646 619 | 50 962 100 | |
| 1985 | 15 570 | 666 831 | 1 427 774 | 16 361 666 | 3 162 387 | 77 735 969 | 131 988 196 | 51 395 212 | 911 418 | 24 616 891 | 55 355 449 | |
| 1986 | 16 140 | 695 466 | 1 509 567 | 17 620 789 | 3 022 650 | 78 999 904 | 136 847 551 | 54 836 429 | 934 918 | 26 056 617 | 58 420 761 | |

Source: Statistics Canada, Catalogue No. 31-203.

Table 7.17. Principal statistics by major manufacturing industries in Ontario, 1986.

| Manufacturing Industries | SICs | Production and related workers | | | | Manufacturing activity | | | | Employees | | | |
|-------------------------------------|---------------|--------------------------------|--------------------------|-------------------|------------------------------|---|--|-------------------|----------------|--------------------|-------------------|------------|-----|
| | | Estab-lish-ments (No.) | Person hours paid ('000) | Wages ('000) | Cost of fuel and electricity | Cost of materials and supplies (\$'000) | Value of shipments of goods of own manufacture | Value added | (No.) | Salaries and wages | Value added | (\$'000) | --- |
| | | | | | | | | | | | | | |
| Food | 10 | 1 075 | 51 193 | 105 595 | 1 187 937 | 230 144 | 8 613 714 | 13 561 199 | 4 732 499 | 75 123 | 1 938 906 | 5 405 201 | |
| Beverages | 11 | 101 | 6 089 | 13 551 | 190 987 | 39 207 | 920 322 | 2 235 038 | 1 274 479 | 11 762 | 406 983 | 1 518 699 | |
| Tobacco products | 12 | 13 | 1 687 | 2 909 | 57 131 | 5 233 | 542 097 | 796 307 | 330 225 | 2 774 | 104 979 | 334 818 | |
| Rubber products | 15 | 96 | 10 932 | 23 998 | 297 006 | 40 681 | 744 551 | 1 560 634 | 773 144 | 15 611 | 434 828 | 886 024 | |
| Plastic products | 16 | 572 | 19 784 | 41 748 | 378 722 | 54 822 | 1 365 270 | 2 598 876 | 1 191 257 | 24 211 | 535 272 | 1 245 960 | |
| Leather and allied products | 17 | 157 | 11 828 | 23 608 | 177 616 | 9 477 | 377 096 | 756 868 | 366 906 | 13 834 | 238 305 | 397 333 | |
| Primary textile | 18 | 72 | 7 737 | 16 597 | 177 899 | 48 342 | 522 536 | 1 197 077 | 622 870 | 10 686 | 283 687 | 665 193 | |
| Textile products | 19 | 350 | 11 942 | 25 838 | 204 422 | 24 746 | 744 156 | 1 303 338 | 545 289 | 14 652 | 288 690 | 585 365 | |
| Clothing | 24 | 657 | 30 770 | 63 532 | 427 829 | 15 299 | 744 385 | 1 636 483 | 893 901 | 34 731 | 537 260 | 964 514 | |
| Furniture and fixtures | 26 | 765 | 26 548 | 59 842 | 511 416 | 25 947 | 1 138 179 | 2 355 301 | 1 212 020 | 30 752 | 645 383 | 1 220 279 | |
| Printing and allied | 28 | 2 473 | 38 694 | 78 983 | 975 552 | 44 050 | 2 016 568 | 5 491 769 | 3 448 580 | 63 651 | 1 722 981 | 3 581 011 | |
| Primary metal | 29 | 228 | 48 263 | 105 197 | 1 629 384 | 521 180 | 5 147 854 | 9 732 116 | 3 978 087 | 62 429 | 2 230 182 | 3 996 084 | |
| Chemical and allied products | 30 | 3 011 | 74 167 | 158 919 | 1 736 078 | 142 728 | 4 952 230 | 9 626 750 | 4 583 491 | 88 776 | 2 227 985 | 4 695 649 | |
| Machinery | 31 | 972 | 34 389 | 76 741 | 857 084 | 56 298 | 2 739 885 | 5 283 874 | 2 535 142 | 46 914 | 1 262 476 | 2 675 698 | |
| Transportation equipment | 32 | 760 | 127 569 | 301 194 | 3 953 685 | 286 185 | 25 778 846 | 36 609 629 | 10 528 131 | 157 118 | 5 122 377 | 11 010 214 | |
| Electrical and elec-tronic products | 33 | 818 | 57 687 | 122 211 | 1 378 186 | 88 794 | 4 848 031 | 9 477 865 | 4 622 024 | 86 585 | 2 368 478 | 5 384 993 | |
| Non-metallic mineral products | 35 | 590 | 21 367 | 45 569 | 580 102 | 269 874 | 1 368 063 | 3 526 753 | 1 880 291 | 27 437 | 801 450 | 1 985 605 | |
| Chemical and allied products | 36 | 46 | 2 597 | 5 959 | 111 759 | 111 971 | 4 680 206 | 5 683 562 | 671 784 | 7 512 | 318 504 | 657 876 | |
| Chemical and chemi-cal products | 37 | 652 | 26 525 | 57 000 | 756 757 | 508 001 | 5 219 618 | 10 804 485 | 5 050 155 | 50 722 | 1 676 146 | 5 417 481 | |
| Other manufactur-ing products | 39 | 1 505 | 31 318 | 65 042 | 614 848 | 40 942 | 1 809 565 | 3 594 859 | 1 732 408 | 42 357 | 975 505 | 1 911 966 | |
| Wood | 25 | 898 | 22 598 | 48 409 | 471 163 | 66 033 | 1 350 940 | 2 485 038 | 1 083 836 | 25 852 | 583 272 | 1 091 104 | |
| Paper and allied products | 27 | 329 | 31 782 | 67 128 | 945 229 | 392 697 | 3 375 793 | 6 529 729 | 2 779 910 | 41 429 | 1 312 968 | 2 789 764 | |
| Total all manufacturing | 16 140 | 695 466 | 1 509 567 | 17 620 789 | 3 022 650 | 78 999 904 | 136 847 551 | 54 836 429 | 934 918 | 26 056 617 | 58 420 761 | | |

Source: Statistics Canada, Catalogue No. 22-20, 1987.

SECTION VIII

EMPLOYMENT AND EARNINGS

Table 8.1. Employment in the forest industry, by industry group, Ontario, 1970-1987.

| Year | Logging | Sawmills and plan- ing mills | Other wood industries | Total wood industries | Pulp and paper mills | Other paper and allied industries | Total paper and allied industries | Total |
|-------|---------|------------------------------------|-----------------------------|-----------------------------|----------------------------|---|---|--------|
| 1970 | 9 567 | 5 361 | 11 303 | 16 664 | 22 201 | 22 693 | 44 894 | 71 125 |
| 1971 | 8 125 | 5 204 | 11 631 | 16 835 | 21 305 | 22 562 | 43 867 | 68 827 |
| 1972 | 7 783 | 5 595 | 13 003 | 18 598 | 21 044 | 23 536 | 44 580 | 70 961 |
| 1973 | 8 983 | 6 620 | 14 042 | 20 662 | 21 271 | 24 120 | 45 391 | 75 036 |
| 1974 | 9 673 | 6 557 | 13 950 | 20 507 | 21 909 | 25 495 | 47 404 | 77 584 |
| 1975 | 8 028 | 5 444 | 13 840 | 19 284 | 20 912 | 24 266 | 45 178 | 72 490 |
| 1976 | 7 694 | 5 660 | 14 206 | 19 866 | 21 693 | 23 952 | 45 645 | 73 205 |
| 1977 | 8 447 | 6 221 | 13 889 | 20 110 | 21 604 | 21 884 | 43 488 | 72 045 |
| 1978 | 9 569 | 6 888 | 15 054 | 21 942 | 22 177 | 23 032 | 45 209 | 76 720 |
| 1979 | 9 684 | 7 105 | 15 797 | 22 902 | 22 539 | 23 633 | 46 172 | 78 758 |
| 1980 | 9 578 | 6 967 | 14 381 | 21 348 | 23 105 | 24 756 | 47 861 | 78 787 |
| 1981 | 9 003 | 6 630 | 14 340 | 20 970 | 22 776 | 24 605 | 47 381 | 77 354 |
| 1982 | 7 079 | 6 005 | 13 010 | 19 015 | 21 826 | 22 091 | 43 917 | 70 011 |
| 1983 | 7 826 | 6 433 | 13 129 | 19 562 | 20 708 | 20 293 | 41 001 | 68 389 |
| 1984 | 9 515 | 6 886 | 13 954 | 20 840 | 20 447 | 21 243 | 41 690 | 72 045 |
| 1985 | 8 482 | 7 686 | 15 521 | 23 207 | 19 831 | 21 159 | 40 990 | 76 679 |
| 1986 | 8 527 | 7 685 | 18 167 | 25 852 | 19 942 | 21 487 | 41 429 | 75 808 |
| 1987P | 7 244 | 7 785 | 20 255 | 28 040 | 19 873 | 22 443 | 42 316 | 77 600 |

P - preliminary

Source: Statistics Canada. Catalogue No. 25-202, 35-250B and 36-250B.

Table 8.2. Estimated weekly earnings^a in the Ontario forest sector, 1986 to 1989 (\$).

| | Forestry | All wood industries | Sawmills and planing mills | All paper and allied industries | Pulp and paper mills | Average of major forestry industries | All manufacturing industries |
|-------------|----------|---------------------|----------------------------|---------------------------------|----------------------|--------------------------------------|------------------------------|
| 1986 | | | | | | | |
| Jan. | 645.83 | 386.44 | 472.22 | 589.15 | 667.64 | 540.47 | 521.54 |
| Feb. | 661.29 | 398.13 | 481.46 | 591.58 | 671.24 | 550.33 | 528.55 |
| Mar. | 655.25 | 391.64 | 455.61 | 584.97 | 668.54 | 543.95 | 521.86 |
| Apr. | 605.93 | 373.70 | 422.29 | 592.59 | 667.57 | 524.07 | 523.13 |
| May | 574.69 | 370.90 | 425.61 | 595.63 | 687.19 | 513.74 | 521.97 |
| June | 596.47 | 395.62 | 441.76 | 606.18 | 702.98 | 532.76 | 520.16 |
| July | 610.95 | 404.31 | 423.97 | 601.88 | 698.98 | 539.05 | 518.85 |
| Aug. | 562.59 | 394.46 | 435.67 | 596.28 | 700.73 | 517.78 | 514.33 |
| Sept. | 587.09 | 398.84 | 439.22 | 603.36 | 706.02 | 529.76 | 525.14 |
| Oct. | 590.76 | 415.99 | 433.87 | 604.10 | 703.13 | 536.95 | 533.11 |
| Nov. | 642.66 | 421.29 | 455.80 | 606.46 | 709.31 | 556.80 | 539.97 |
| Dec. | 626.70 | 400.13 | 421.09 | 605.72 | 708.54 | 544.18 | 531.06 |
| Avg | 613.35 | 395.95 | 442.38 | 598.16 | 690.99 | 535.82 | 524.97 |
| 1987 | | | | | | | |
| Jan. | 642.82 | 422.35 | 466.55 | 614.24 | 713.52 | 559.80 | 538.83 |
| Feb. | 674.91 | 434.12 | 461.96 | 611.16 | 708.52 | 573.40 | 543.90 |
| Mar. | 633.85 | 424.72 | 449.13 | 611.72 | 702.86 | 556.76 | 543.74 |
| Apr. | 647.10 | 438.86 | 478.12 | 613.69 | 704.17 | 566.58 | 541.46 |
| May | 565.42 | 437.16 | 453.84 | 620.18 | 718.69 | 540.92 | 541.96 |
| June | 596.40 | 434.03 | 455.27 | 622.69 | 722.36 | 551.07 | 539.87 |
| July | 523.47 | 427.34 | 451.11 | 607.90 | 703.17 | 519.57 | 534.04 |
| Aug. | 557.30 | 431.89 | 465.54 | 609.92 | 700.36 | 533.04 | 540.33 |
| Sept. | 585.78 | 446.62 | 466.84 | 606.61 | 676.81 | 545.34 | 550.12 |
| Oct. | 659.08 | 457.98 | 478.68 | 631.27 | 724.95 | 582.78 | 558.52 |
| Nov. | 646.53 | 453.36 | 453.34 | 633.16 | 737.15 | 577.68 | 554.37 |
| Dec. | 618.07 | 438.50 | 455.23 | 625.55 | 723.37 | 560.71 | 540.71 |
| Avg | 612.57 | 437.24 | 461.30 | 617.34 | 711.33 | 555.72 | 543.99 |
| 1988 | | | | | | | |
| Jan. | 654.48 | 460.84 | 474.47 | 636.89 | 728.96 | 584.09 | 564.85 |
| Feb. | 699.46 | 450.85 | 467.18 | 640.38 | 737.09 | 596.90 | 566.72 |
| Mar. | 662.28 | 449.39 | 452.73 | 643.05 | 740.34 | 584.91 | 567.70 |
| Apr. | 618.37 | 453.52 | 463.78 | 645.14 | 742.22 | 572.34 | 573.77 |
| May | 578.99 | 444.85 | 447.05 | 640.25 | 746.57 | 554.70 | 568.83 |
| June | 590.45 | 446.12 | 459.03 | 642.72 | 742.19 | 559.76 | 570.56 |
| July | 541.98 | 445.28 | 444.49 | 639.96 | 736.33 | 542.41 | 562.47 |
| Aug. | 568.27 | 456.92 | 462.11 | 646.60 | 736.15 | 557.26 | 567.86 |
| Sept. | 621.53 | 476.83 | 470.68 | 660.57 | 760.05 | 586.31 | 586.12 |
| Oct. | 647.74 | 482.53 | 462.44 | 656.17 | 752.47 | 595.48 | 586.67 |
| Nov. | 656.84 | 478.84 | 474.32 | 659.09 | 766.51 | 598.26 | 585.23 |
| Dec. | 687.58 | 469.03 | 463.69 | 651.08 | 746.01 | 572.56 | 570.83 |
| Avg | 627.33 | 459.58 | 461.83 | 646.82 | 744.57 | 575.41 | 572.63 |
| 1989 | | | | | | | |
| Jan. | 728.94 | 483.00 | 495.01 | 662.35 | 759.44 | 624.76 | 589.92 |
| Feb. | 726.34 | 484.82 | 495.05 | 664.36 | 762.73 | 625.17 | 594.99 |
| Mar. | 678.74 | 480.03 | 488.50 | 669.81 | 784.59 | 609.53 | 590.56 |
| Apr. | 709.72 | 484.68 | 491.32 | 672.25 | 787.49 | 555.55 | 596.86 |
| May | 648.88 | 474.94 | 481.90 | 674.92 | 795.14 | 599.58 | 590.90 |
| June | 689.59 | 481.83 | 481.30 | 672.89 | 776.66 | 614.77 | 594.77 |
| July | 651.67 | 475.76 | 478.24 | 674.47 | 779.26 | 600.63 | 586.96 |
| Aug. | 690.11 | 476.25 | 480.28 | 669.86 | 773.32 | 612.07 | 597.20 |
| Sept. | 670.81 | 485.84 | 491.42 | 686.32 | 801.20 | 614.32 | 612.01 |
| Oct. | | | | | | | |
| Nov. | | | | | | | |
| Dec. | | | | | | | |
| Avg | | | | | | | |

^a Including overtime

Source: Statistics Canada. Catalogue No. 72-002.

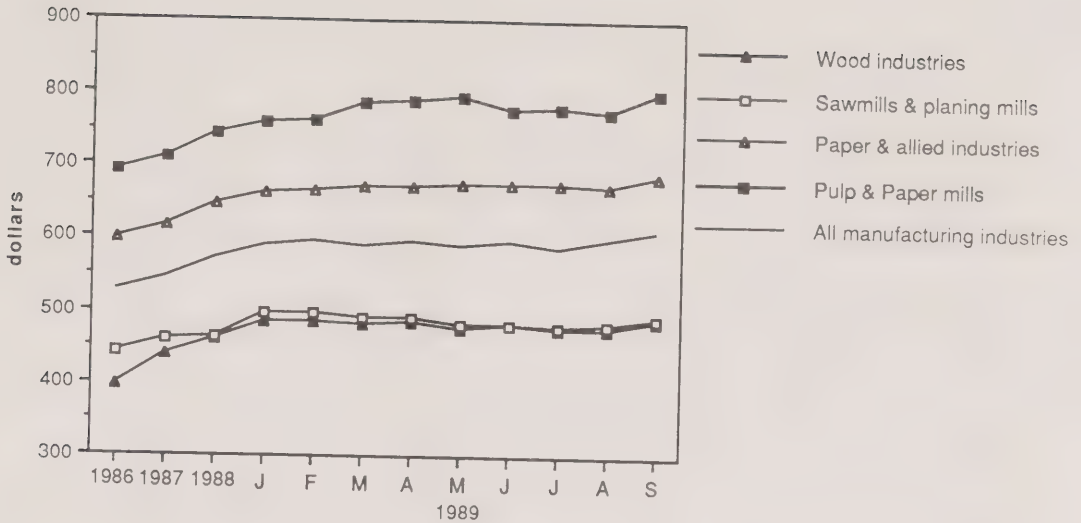


Figure 6. Average weekly earnings in Ontario's forest sector, 1986-1989.

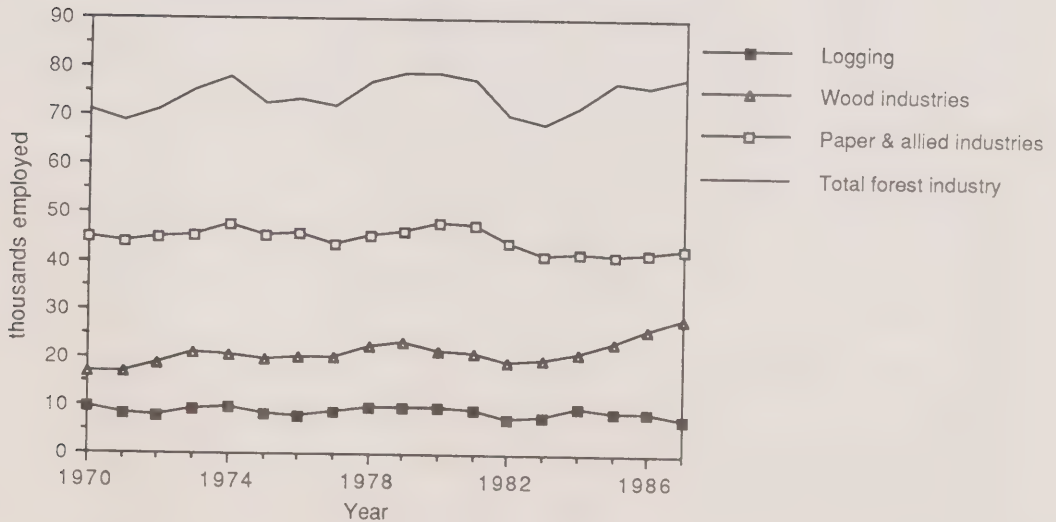


Figure 7. Employment in Ontario's forest industry, by industry group, 1970-1987.

Table 3.3 Estimated number of employees, by forest sector, in Ontario, 1986-1989 (monthly).

| | Forest services & logging | | | | Wood industries | | | | Paper and allied | | | | Total | | | |
|-------|---------------------------|------|------|------|-----------------|------|------|------|------------------|------|------|------|-------|------|------|------|
| | 1986 | 1987 | 1988 | 1989 | 1986 | 1987 | 1988 | 1989 | 1986 | 1987 | 1988 | 1989 | 1986 | 1987 | 1988 | 1989 |
| | ----- | | | | ----- | | | | ----- | | | | ----- | | | |
| | | | | | (000 employed) | | | | | | | | | | | |
| Jan. | 10.2 | 11.1 | 9.8 | 9.7 | 22.1 | 21.5 | 25.4 | 24.6 | 41.8 | 42.7 | 44.5 | 45.2 | 74.3 | 75.3 | 79.7 | 79.5 |
| Feb. | 10.2 | 11.3 | 9.4 | 9.5 | 22.5 | 23.6 | 24.1 | 27.4 | 42.1 | 43.7 | 43.5 | 45.2 | 74.5 | 78.6 | 77.0 | 82.1 |
| Mar. | 9.5 | 10.4 | 9.5 | 9.5 | 22.8 | 25.0 | 24.5 | 28.5 | 40.4 | 44.4 | 44.5 | 45.0 | 74.4 | 79.8 | 78.5 | 83.0 |
| Apr. | 8.3 | 9.7 | 8.5 | 8.0 | 25.3 | 25.9 | 24.5 | 28.4 | 42.0 | 43.4 | 44.3 | 45.1 | 75.6 | 79.0 | 77.3 | 81.5 |
| May | 9.5 | 11.3 | 9.6 | 9.6 | 24.0 | 25.8 | 26.2 | 28.9 | 43.5 | 44.0 | 45.4 | 45.6 | 77.0 | 81.1 | 81.2 | 84.1 |
| June | 11.4 | 12.3 | 11.3 | 10.0 | 24.3 | 26.9 | 26.9 | 29.5 | 44.1 | 44.8 | 45.9 | 46.3 | 79.8 | 84.0 | 82.9 | 85.8 |
| July | 13.0 | 13.5 | 12.1 | 9.3 | 22.6 | 27.0 | 26.6 | 29.5 | 44.1 | 44.9 | 45.1 | 46.7 | 79.7 | 85.4 | 83.8 | 85.5 |
| Aug. | 13.7 | 13.0 | 12.5 | 10.9 | 23.4 | 26.8 | 26.4 | 28.4 | 44.6 | 45.0 | 45.5 | 46.8 | 81.7 | 84.8 | 84.4 | 86.1 |
| Sept. | 12.6 | 12.5 | 11.8 | 10.9 | 22.6 | 25.6 | 26.5 | 28.0 | 44.3 | 44.2 | 45.2 | 45.7 | 79.5 | 82.3 | 83.5 | 84.6 |
| Oct. | 11.0 | 10.5 | 10.5 | | 22.3 | 25.5 | 26.3 | | 43.6 | 43.9 | 45.1 | | 76.9 | 79.9 | 81.9 | |
| Nov. | 11.3 | 10.4 | 10.3 | | 21.7 | 26.6 | 25.7 | | 43.4 | 44.3 | 45.2 | | 76.4 | 81.3 | 81.2 | |
| Dec. | 11.2 | 10.4 | 9.9 | | 22.3 | 26.5 | 25.3 | | 43.6 | 44.8 | 45.3 | | 77.1 | 81.7 | 80.5 | |
| Avg | 11.0 | 11.4 | 10.4 | | 23.0 | 25.6 | 25.7 | | 43.1 | 44.2 | 44.9 | | 77.2 | 81.1 | 81.0 | |

Table 8.4. Ontario forest sector collective bargaining agreements expiring in 1989.

| A. IN TERMS OF AGREEMENTS BY MONTH | | | | | | | | | | | |
|------------------------------------|------|------|------|------|-----|------|------|------|------|------|-------|
| Industry | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Total |
| Woods | 3 | 5 | 2 | 3 | 5 | 2 | 2 | 13 | 2 | 5 | 54 |
| Paper and allied | 2 | 5 | 2 | 5 | 1 | 2 | 0 | 2 | 4 | 5 | 34 |
| Forestry | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |

| B. IN TERMS OF EMPLOYEES COVERED BY MONTH | | | | | | | | | | | |
|---|------|------|------|------|-----|------|------|-------|------|------|-------|
| Industry | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Total |
| Woods | 201 | 227 | 265 | 106 | 557 | 406 | 570 | 1 371 | 175 | 445 | 5 113 |
| Paper and allied | 100 | 617 | 78 | 749 | 44 | 88 | 0 | 79 | 797 | 449 | 3 379 |
| Forestry | 0 | 0 | 16 | 16 | 0 | 0 | 0 | 140 | 0 | 0 | 280 |

| C. BY SIZE OF BARGAINING UNIT | | | | | | | | | | | | | | | |
|-------------------------------|----------|---------|---------|-----------|-----------|------------|---------------|-------|---|-------|---|---|---|----|-------|
| | Under 25 | 25 - 49 | 50 - 99 | 100 - 199 | 200 - 499 | 500 - 1000 | 1000 and Over | Total | | | | | | | |
| | Agrts | Empls | Agrts | Empls | Agrts | Empls | Agrts | Empls | | | | | | | |
| Woods | 15 | 189 | 9 | 322 | 7 | 517 | 18 | 2 404 | 5 | 1 681 | 0 | 0 | 0 | 54 | 5 113 |
| Paper and allied | 5 | 90 | 8 | 307 | 10 | 679 | 5 | 579 | 6 | 1 724 | 0 | 0 | 0 | 34 | 3 379 |
| Forestry | 3 | 40 | 0 | 0 | 0 | 0 | 2 | 240 | 0 | 0 | 0 | 0 | 0 | 5 | 280 |

Source: Labour Canada and the Ontario Ministry of Labour. Collective bargaining settlements and negotiations in Ontario. Monthly, various issues.

Ontario forest industry collective bargaining agreements expiring in 1989 and 1990, by company.

| Employer | Location | Union | Number of employees | Effective date | Expiry date | Base rate ^b |
|---|------------------------------------|--|---------------------|----------------------------------|----------------------------------|-------------------------------|
| Forestry | | | | | | |
| Ahlitibi-Price Inc. | Thunder Bay | Woodworkers | 250 | 01/09/87 | 31/08/90 | \$15.16 |
| Canadian Pacific Forest Products Ltd. (formerly Great Lakes Forest Products Ltd.) | Thunder Bay Dryden | Woodworkers Canadian Paperworkers | 800 220 | 01/09/87 01/10/87 | 31/08/90 30/09/90 | \$15.16 \$15.16 |
| Spruce Falls Power and Paper Co. Kimberly Clark of Canada Ltd. E.B. Eddy Forest Products Ltd. | Kapuskasing Longlac Espanola | Woodworkers Woodworkers Woodworkers | 360 700 325 | 01/09/87 01/09/87 01/09/87 | 31/08/90 31/08/90 31/08/90 | \$15.16 \$15.16 \$15.16 |
| Wood Industries | | | | | | |
| Attkokan Forest Products Inc. and | Sapawe | Carpenters | | | | |
| McKenzie Forest Products Inc. | Hudson | Carpenters | 280 | 01/09/86 | 31/08/89 | \$12.59 |
| Dubreuil Brothers Limited | Dubreuilville | Employees' Association | 280 | 01/04/87 | 31/03/90 | \$12.99 |
| G.W. Martin Company | Sault Ste. Marie | Woodworkers | 285 | 27/11/87 | 26/11/89 | \$ 9.48 |
| Levesque Plywood Limited | Hearst | Carpenters | 229 | 01/06/87 | 31/05/90 | \$11.56 |
| Northern Wood Preservers Ltd. | Thunder Bay | Canadian Paperworkers | 265 | 16/05/87 | 15/05/90 | \$12.77 |
| Weidwood of Canada Ltd. | Longlac | Carpenters | 281 | 01/06/87 | 31/05/90 | \$11.79 |
| E.B. Eddy Forest Products Ltd. (formerly Forest & Mill) | Nairn | Canadian Paperworkers | 250 | 01/09/88 | 31/08/91 | \$13.91 |
| and Hogan Lake Timber | Pembroke | Carpenters | 210 | 01/05/88 | 30/04/91 | \$ 9.02 |
| Paper and Allied Industries | | | | | | |
| Ahlitibi-Price Inc. | Ontario | Canadian Paperworkers | 2100 | 01/05/87 | 30/04/90 | \$14.26 |
| Bolse Cascade Canada Limited | P. Frances/Kenora | Canadian Paperworkers and other locals | 1450 | 01/05/87 | 30/04/90 | \$14.32 |
| Dontar Inc. | Red Rock | Canadian Paperworkers | 500 | 01/05/87 | 30/04/90 | \$14.26 |
| Dontar Inc. | Cornwall | Canadian Paperworkers | 1300 | 01/05/87 | 30/04/90 | \$12.98 |
| E.B. Eddy Forest Products Ltd. | St. Catharines Toronto | Canadian Paperworkers | 450 | 01/05/87 | 30/04/90 | \$13.08 |
| Fraser Inc. | Ottawa | Canadian Paperworkers | 530 | 01/05/87 | 30/04/90 | \$13.30 |
| Canadian Pacific Forest Products | Thunder Bay | Canadian Paperworkers | 1450 | 01/05/87 | 30/04/90 | \$14.26 |
| James River-Marathon | Dryden | Canadian Paperworkers | 897 | 01/09/87 | 31/08/90 | \$14.26 |
| Malette Kraft Pulp & Paper (formerly Ahliti-Price) | Marathon | United Paperworkers | 340 | 01/05/87 | 01/05/90 | \$14.26 |
| MacMillan Bloedel Ltd. | Smooth Rock Falls | Canadian Paperworkers | 290 | 01/05/87 | 30/04/90 | \$14.26 |
| Quebec & Ontario Paper Co. | Sturgeon Falls | Canadian Paperworkers | 300 | 01/05/87 | 30/04/90 | \$13.32 |
| Quebec & Ontario Paper Co. | Thorold | various unions | 740 | 01/05/87 | 30/04/90 | \$14.26 |
| Spruce Falls Power and Paper Co. | Sault Ste. Marie | Canadian Paperworkers | 1100 | 01/05/87 | 30/04/90 | \$14.26 |
| Kimberly Clark of Canada Ltd. | Kapuskasing Terrace Bay | Canadian Paperworkers United Paperworkers | 600 | 01/05/88 | 30/04/90 | \$14.46 |

^a Based on contracts settled as of October, 1989, and settlements covering 200 or more Ontario employees^b Lowest hourly wage paid

Source: Labour Canada and the Ontario Ministry of Labour. Collectives bargaining settlements and negotiations for 1989-90, various issues.

SECTION IX

MISCELLANEOUS RELATED DATA

Table 9.1. Summary of forest management agreements.

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---------------------------------------|--|-------------|---------------------------------|----------|
| Abitibi-Price Inc. | Iroquois Falls Forest FMA No. 500200 | 28-04-80 | productive | 7 352.4 |
| | | | unproductive | 2 001.0 |
| | | | Total | 9 353.4 |
| Canadian Pacific Forest Products Ltd. | English River Forest FMA No. 500300 | 20-06-80 | productive | 4 624.2 |
| | | | unproductive | 1 642.9 |
| | | | Total | 6 267.1 |
| E.B. Eddy Forest Products Ltd. | Upper Spanish River Forest FMA No. 500400 | 11-08-80 | productive | 5 587.3 |
| | | | unproductive | 1 559.3 |
| | | | Total | 7 146.6 |
| E.B. Eddy Forest Products Ltd. | Lower Spanish River Forest FMA No. 500500 | 11-08-80 | productive | 5 132.9 |
| | | | unproductive | 1 472.2 |
| | | | Total | 6 605.1 |
| Spruce Falls Power and Paper Co. Ltd. | Gordon Cosens Forest FMA No. 500600 | 19-09-80 | productive | 13 867.9 |
| | | | unproductive | 2 236.2 |
| | | | Total | 16 104.1 |
| Abitibi-Price Inc. | Spruce River Forest FMA No. 500700 | 15-12-81 | productive | 5 992.1 |
| | | | unproductive | 1 531.1 |
| | | | Total | 7 523.2 |
| Great West Timber Ltd. | Black River Forest FMA No. 500800 | 31-03-82 | productive | 2 198.2 |
| | | | unproductive | 354.0 |
| | | | Total | 2 552.2 |
| Domtar Inc. | Lake Nipigon Forest FMA No. 500900 | 31-03-82 | productive | 5 189.0 |
| | | | unproductive | 940.3 |
| | | | Total | 6 129.3 |

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---|---|-------------|---------------------------------|---------|
| Quebec and Ontario Paper Company Ltd. | Nagagami Forest FMA No. 501000 | 14-03-83 | productive | 3 819.3 |
| | | | unproductive | 676.8 |
| | | | Total | 4 496.1 |
| Pineland Timber Ltd. | Pineland Forest FMA No. 501100 | 28-02-83 | productive | 2 649.0 |
| | | | unproductive | 529.0 |
| | | | Total | 3 178.3 |
| Boise Cascade Canada Ltd. | Seine River Forest FMA No. 501200 | 30-03-83 | productive | 1 891.0 |
| | | | unproductive | 799.5 |
| | | | Total | 2 690.5 |
| Boise Cascade Canada Ltd. | Manitou Forest FMA No. 501300 | 30-03-83 | productive | 2 735.9 |
| | | | unproductive | 1 174.2 |
| | | | Total | 3 910.1 |
| Malette Inc. | Romeo Mallette Forest FMA No. 501400 | 21-02-83 | productive | 5 095.7 |
| | | | unproductive | 960.8 |
| | | | Total | 6 056.5 |
| Domtar Inc. | White River Forest FMA No. 501500 | 16-06-83 | productive | 4 873.9 |
| | | | unproductive | 884.0 |
| | | | Total | 5 757.9 |
| Quebec and Ontario Paper Company ^a | Driftwood Forest FMA No. 501700 | 20-06-83 | productive | 1 442.7 |
| | | | unproductive | 275.6 |
| | | | Total | 1 718.3 |
| Quebec and Ontario Paper Company | Timmins Forest FMA No. 501800 | 20-06-83 | productive | 1 603.8 |
| | | | unproductive | 291.2 |
| | | | Total | 1 895.0 |

(cont'd)

Table 9.1. Summary of forest management agreements (cont'd).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---|--|----------------|------------------------------------|----------|
| Boise Cascade Canada Ltd. ^b | Patricia Forest FMA No. 502000 | 02-04-84 | productive | 4 560.5 |
| | | | unproductive | 1 951.9 |
| | | | Total | 6 512.4 |
| Boise Cascade Canada Ltd. | Packwash Forest FMA No. 502100 | 02-04-84 | productive | 2 982.8 |
| | | | unproductive | 994.4 |
| | | | Total | 3 977.2 |
| Dubreuil Brothers Ltd. | Magpie Forest FMA No. 502200 | 24-02-84 | productive | 3 197.2 |
| | | | unproductive | 677.6 |
| | | | Total | 3 874.8 |
| Canadian Pacific Forest Products Ltd. | Trout Lake Forest FMA No. 502300 | 24-09-84 | productive | 7 365.8 |
| | | | unproductive | 2 392.7 |
| | | | Total | 9 758.5 |
| Canadian Pacific Forest Products Ltd. | Dog River- Matawin Forest FMA No. 502400 | 13-06-85 | productive | 6 773.0 |
| | | | unproductive | 1 962.6 |
| | | | Total | 8 735.6 |
| Canadian Pacific Forest Products Ltd. | Bright Sands Forest FMA No. 502500 | 13-06-85 | productive | 3 087.8 |
| | | | unproductive | 1 277.3 |
| | | | Total | 4 365.1 |
| Kimberly-Clark of Canada Ltd. | Nakina Forest FMA No. 502600 | 13-06-85 | productive | 7 241.4 |
| | | | unproductive | 1 817.5 |
| | | | Total | 9 058.9 |
| Kimberly-Clark of Canada Ltd. | Longlac Forest FMA No. 502700 | 13-06-85 | productive | 8 570.8 |
| | | | unproductive | 1 436.0 |
| | | | Total | 10 006.8 |

(cont'd)

Table 9.1. Summary of forest management agreements (concl.).

| Company | Name and number of agreement | Date signed | Area profile (km ²) | |
|---------------------------------------|--------------------------------------|-------------|---------------------------------|----------|
| Hearst Forest Management Inc. | Hearst Forest FMA No. 502800 | 06-11-86 | productive | 10 097.8 |
| | | | unproductive | 1 964.4 |
| | | | Total | 12 062.2 |
| Canadian Pacific Forest Products Ltd. | Black Sturgeon Forest FMA No. 502900 | 17-07-86 | productive | 4 518.7 |
| | | | unproductive | 821.9 |
| | | | Total | 5 340.6 |
| Superior Forest Management Ltd. | Superior Forest FMA No. 503000 | 28-05-87 | productive | 7 207.1 |
| | | | unproductive | 1 324.6 |
| | | | Total | 8 531.7 |
| McKenzie Forest Products Inc. | Lac Seul Forest FMA No. 503100 | 23-07-87 | productive | 5 404.5 |
| | | | unproductive | 1 196.5 |
| | | | Total | 6 601.0 |

a FMA 501600 and 501700 amalgamated into Driftwood Forest FMA 501700, effective 01 April, 1988.

b FMA 501900 and 502000 amalgamated into Patricia Forest FMA 502000, effective 01 April, 1989.

Source: Ontario Ministry of Natural Resources

Table 9.2. **Canada-Ontario Forest Resource Development Agreement.**

Duration: 1 April, 1984 to 31 March, 1989

Total cost: \$150 million (cost-shared 50/50, Canada/Ontario)

- Objectives: a) to encourage and support forest management activity in order to increase the sustainable supply of wood fiber from the forest resource and ensure the long-term viability and competitiveness of the forest industry in Ontario;
- b) to improve and increase the utilization of the forest resource to enhance future forest industry development opportunities;
- c) to contribute to the economic development of the Ontario forest sector, including the improvement of employment opportunities in the sector.

FUNDING LEVELS FOR PROGRAMS

| Program | Federal | | Provincial | | Total |
|--|------------------------|-----------------|------------------------|-----------------|---------|
| | Unilateral delivery | Cost- shared | Unilateral delivery | Cost- shared | |
| | | | \$000 | | |
| 1. Forest Management and Renewal Operations | | | | | |
| 1.1 Intensive forest management | 4 000 | 29 526 | - | 29 526 | 63 052 |
| 1.2 Stock production | - | 17 766 | - | 17 766 | 35 532 |
| 1.3 Tree improvement | - | 2 910 | - | 2 910 | 5 820 |
| 1.4 Private land forestry | 4 000 | 4 143 | - | 4 143 | 12 286 |
| 1.5 Forest access | - | 905 | 14 000 | 905 | 15 810 |
| 2. Forest Management and Renewal Support | | | | | |
| 2.1 Management data, growth and yield studies, inventory | - | 2 500 | - | 2 500 | 5 000 |
| 3. Innovative Programs | | | | | |
| 3.1 Methodology to optimize investments | - | 250 | - | 250 | 500 |
| 3.2 Integrated resource management | - | 250 | - | 250 | 500 |
| 3.3 Research, development and application | 4 000 | 1 250 | - | 1 250 | 6 500 |
| 3.4 Utilization, marketing and product development | - | 350 | - | 350 | 700 |
| 4. Administration, Communications and Evaluation | | | | | |
| | 2 000 | 1 150 | - | 1 150 | 4 300 |
| | 14 000 | 61 000 | 14 000 | 61 000 | 150 000 |

Source: Canada-Ontario Forest Resource Development Agreement.

Table 1.1. Canada-Ontario Forest Resource Development Agreement, actual fiscal expenditures, 1984-1985 to 1988-1989 (\$'000).

| Programs | 1984-1985 ^b | | | 1985-1986 ^b | | |
|--|--------------------------|---------------------------|------------------------------|--------------------------|---------------------------|------------------------------|
| | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) |
| 1. Forest Management and Renewal Operations | | | | | | |
| 1.1 Intensive forest management | 12 355 | — | — | 7 353 | 82 | — |
| 1.2 Stock production | 2 144 | — | — | 9 323 | — | — |
| 1.3 Tree improvement | — | — | — | 1 065 | — | — |
| 1.4 Private land forestry | 22 | — | — | 1 308 | 187 | — |
| 1.5 Forest access | — | — | — | — | — | 788 |
| 2. Forest Management and Renewal Support | | | | | | |
| 2.1 Management data, growth and yield studies, inventory | 290 | — | — | 779 | — | — |
| 3. Innovative Programs | | | | | | |
| 3.1 Methodology to optimize investments | — | — | — | — | — | — |
| 3.2 Integrated resource management | — | — | — | — | — | — |
| 3.3 Research, development and application | — | — | — | 274 | 163 | — |
| 3.4 Utilization, marketing and product development | — | — | — | 80 | — | — |
| 4. Administration, Communications and Evaluation | | | | | | |
| 4.1 Administration | 4 | 110 | — | 203 | 363 | — |
| 4.2 Communications | — | — | — | 36 | — | — |
| 4.3 Evaluation | — | — | — | 7 | — | — |
| Total | 14 815 | 110 | — | 20 428 | 795 | 788 |

^a Cost-shared 50/50 by the federal and provincial governments

^b audited costs

^c unaudited costs

Source: Canada-Ontario Forest Resource Development Agreement. Annual Reports and Audit Reports.

| 1986-1987 ^b | | | 1987-1988 ^c | | | 1988-1989 ^c | | |
|--------------------------|---------------------------|------------------------------|--------------------------|---------------------------|------------------------------|--------------------------|---------------------------|------------------------------|
| Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) | Cost shared ^a | Direct delivery (federal) | Direct delivery (provincial) |
| 13 131 | 870 | — | 13 053 | 756 | — | 12 450 | 918 | — |
| 10 125 | — | — | 8 878 | — | — | 4 998 | — | — |
| 1 033 | — | — | 1 711 | — | — | 1 522 | — | — |
| 2 335 | 516 | — | 2 469 | 609 | — | 1 801 | 551 | — |
| 365 | — | 2 963 | 1 034 | — | 4 174 | 196 | — | 2 999 |
| 2 291 | — | — | 792 | — | — | 662 | — | — |
| 49 | — | — | 154 | — | — | 237 | — | — |
| 260 | — | — | 58 | — | — | 174 | — | — |
| 534 | 820 | — | 542 | 1 065 | — | 232 | 1 273 | — |
| 38 | — | — | 158 | — | — | 131 | — | — |
| 262 | 466 | — | 285 | 506 | — | 180 | 455 | — |
| 238 | — | — | 430 | — | — | 205 | — | — |
| 17 | — | — | — | — | — | — | — | — |
| 30 678 | 2 623 | 2 963 | 29 564 | 2 936 | 4 174 | 22 788 | 3 197 | 2 999 |

Table 9.4. Summary of capital and repair expenditures in the forest industry in Ontario and Canada, 1970-1989 (\$'000,000).

| | Ontario | | | Total Ontario | Total Canada | Ontario as % of Canada |
|-------|---------|-------|------------------|------------------|-----------------|---------------------------|
| | Logging | Wood | Paper and allied | | | |
| 1970 | 26.5 | 30.3 | 162.7 | 219.5 | 1 155.7 | 19 |
| 1971 | 26.7 | 25.3 | 160.8 | 212.8 | 1 207.5 | 18 |
| 1972 | 31.5 | 39.8 | 132.7 | 204.0 | 1 212.1 | 17 |
| 1973 | 46.0 | 63.2 | 162.1 | 271.3 | 1 432.0 | 19 |
| 1974 | 58.6 | 92.2 | 251.6 | 402.4 | 1 803.4 | 22 |
| 1975 | 59.7 | 80.5 | 282.6 | 422.8 | 1 722.7 | 25 |
| 1976 | 54.7 | 58.6 | 392.4 | 505.7 | 2 013.9 | 25 |
| 1977 | 73.5 | 59.0 | 385.2 | 517.7 | 2 174.9 | 24 |
| 1978 | 80.0 | 69.8 | 289.3 | 439.1 | 2 353.9 | 19 |
| 1979 | 97.3 | 80.3 | 404.8 | 582.4 | 2 856.5 | 20 |
| 1980 | 126.4 | 104.7 | 530.7 | 761.8 | 3 657.3 | 21 |
| 1981 | 139.1 | 101.7 | 898.7 | 1 139.5 | 4 447.7 | 26 |
| 1982 | 81.6 | 80.0 | 810.0 | 971.6 | 3 765.8 | 26 |
| 1983 | 97.8 | 85.8 | 493.3 | 676.9 | 2 982.5 | 23 |
| 1984 | 120.4 | 105.8 | 608.7 | 834.9 | 3 437.5 | 24 |
| 1985 | 123.2 | 94.2 | 908.8 | 1 126.2 | 4 432.2 | 25 |
| 1986 | 127.7 | 111.3 | 676.8 | 915.8 | 4 658.0 | 20 |
| 1987 | 111.6 | 195.1 | 778.7 | 1 085.4 | 5 952.5 | 18 |
| 1988a | 130.2 | 322.9 | 1 048.8 | 1 501.9 | 7 501.0 | 20 |
| 1989b | 141.0 | 205.7 | 1 338.7 | 1 685.4 | 9 071.3 | 19 |

a preliminary

b forecast

Source: Statistics Canada. Catalogue No. 25-202, 61-205.

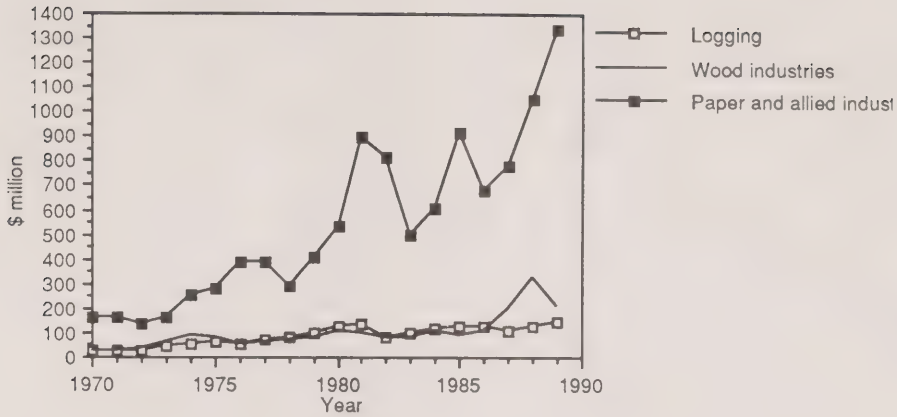


Figure 8. Forest industry capital and repair expenditures in Ontario, 1970-1989.

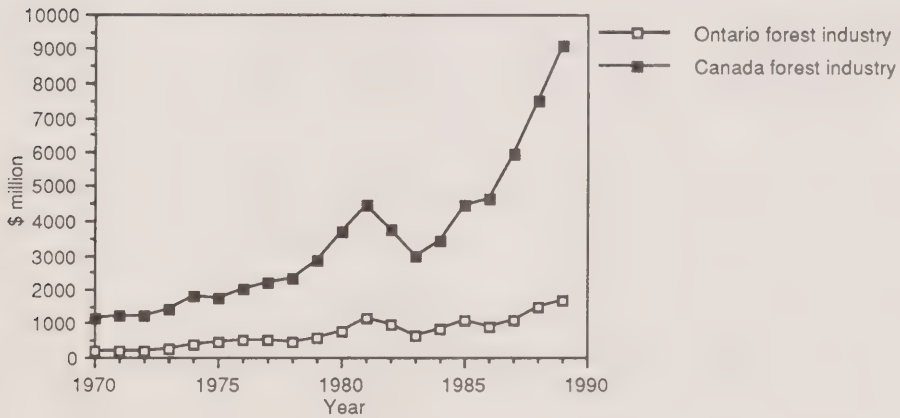


Figure 9. Forest industry capital and repair expenditures in Ontario and Canada, 1970-1989.

Table 9.5. Corporate taxable income in the forest sector in Canada and Ontario, 1974-1987 (\$'000).

| Year | Forestry | | Wood industries | | Paper and allied | | Total manufacturing | | Percentage ^a | |
|-------------------|----------|--------|-----------------|---------|------------------|---------|---------------------|-----------|-------------------------|------|
| | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. | Can. | Ont. |
| 1974 | 42 160 | 4 172 | 182 922 | 37 986 | 744 411 | 261 061 | 6 279 829 | 2 972 730 | 14.8 | 10.1 |
| 1975 | 28 942 | 2 105 | 150 364 | 32 336 | 387 540 | 107 563 | 6 219 613 | 2 832 804 | 8.6 | 4.9 |
| 1976 | 43 436 | 2 753 | 245 446 | 35 027 | 375 114 | 70 511 | 5 850 503 | 2 771 188 | 10.6 | 3.8 |
| 1977 | 56 817 | 3 429 | 332 455 | 35 196 | 392 895 | 81 251 | 5 535 218 | 2 567 026 | 13.1 | 4.5 |
| 1978 | 65 406 | 5 573 | 554 759 | 52 091 | 644 059 | 151 874 | 6 762 325 | 2 965 755 | 17.7 | 6.9 |
| 1979 | 126 210 | 7 589 | 697 696 | 79 470 | 1 291 115 | 284 771 | 9 509 852 | 4 113 256 | 20.9 | 8.9 |
| 1980 | 147 949 | 11 374 | 318 650 | 57 150 | 1 378 262 | 409 936 | 10 863 269 | 4 622 537 | 15.6 | 10.1 |
| 1981 | 84 185 | 8 525 | 207 635 | 58 474 | 837 138 | 365 371 | 9 642 383 | 4 523 486 | 10.8 | 9.4 |
| 1982 | 75 200 | 9 983 | 133 859 | 46 402 | 336 566 | 108 618 | 6 204 744 | 3 022 859 | 7.6 | 5.1 |
| 1983 | 98 463 | 11 600 | 236 027 | 58 587 | 347 003 | 174 776 | 8 533 173 | 4 438 849 | 6.8 | 5.3 |
| 1984 | 125 607 | 17 780 | 270 794 | 67 429 | 697 628 | 288 279 | 12 185 743 | 6 831 500 | 7.9 | 5.2 |
| 1985 | 132 406 | 17 139 | 308 054 | 74 924 | 868 384 | 390 959 | 12 816 038 | 6 973 764 | 9.2 | 6.7 |
| 1986 | 145 331 | 20 825 | 460 086 | 86 142 | 1 107 555 | 438 741 | 14 038 499 | 7 611 788 | 11.2 | 6.9 |
| 1987 ^b | 166 564 | 21 844 | 662 807 | 111 404 | 1 607 362 | 622 846 | 14 074 423 | 6 814 325 | 16.1 | 10.8 |

^a Wood industries and paper and allied industries as a percentage of total manufacturing corporate taxable income

^b Preliminary

Source: Statistics Canada. Catalogue No. 61-208 and 61-208p.

Table 9.6. Price indices for selected pulp and paper commodities, 1981-1989.

| Year | Fine paper writing and reprod'n (domestic) | Corrugated board and linerboard (domestic) | Bleached sulphite pulp (export) | Bleached sulphate pulp (export) | Unbleached sulphate pulp | Newsprint (white) in rolls (export) |
|------|--|--|---------------------------------|---------------------------------|--------------------------|-------------------------------------|
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 116.2 | 108.8 | 92.4 | 93.5 | 95.2 | 104.7 |
| 1983 | 122.1 | 116.3 | 79.7 | 80.6 | 77.6 | 98.7 |
| 1984 | 126.5 | 132.8 | 97.1 | 102.3 | 97.7 | 109.6 |
| 1985 | 129.9 | 139.9 | 83.7 | 87.3 | 85.1 | 119.7 |
| 1986 | 136.4 | 139.7 | 95.6 | 98.2 | 91.7 | 123.0 |
| 1987 | 143.6 | 151.0 | 119.2 | 122.4 | 114.5 | 129.2 |
| 1988 | 150.2 | 163.0 | 138.3 | 143.0 | 135.1 | 137.5 |
| 1989 | 157.6 | 164.3 | 152.9 | 158.8 | 137.8 | 129.4 |

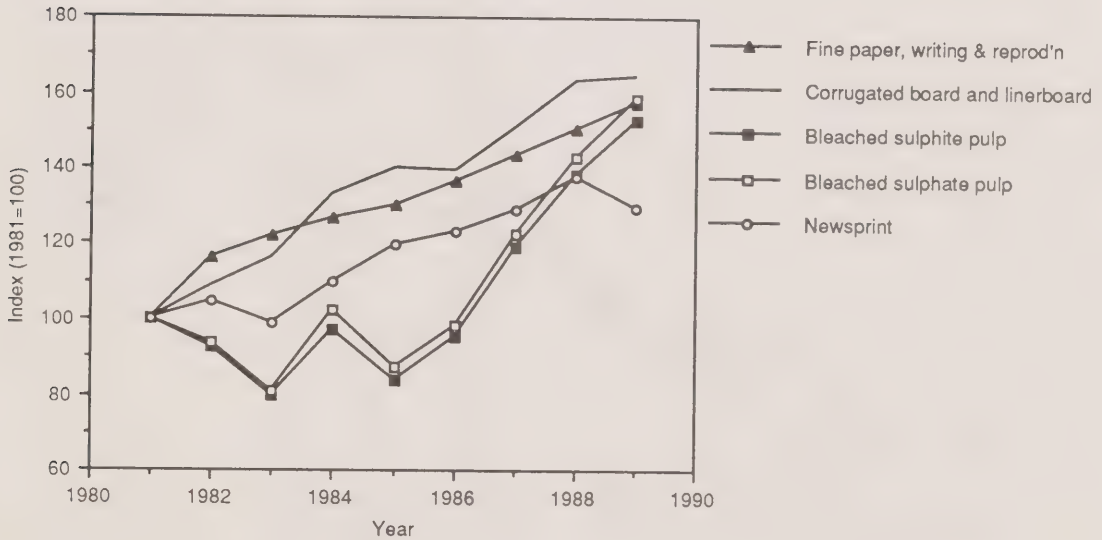


Figure 10. Price indices for selected pulp and paper commodities, 1981-1989.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.7. Selected forest industry product price indices in Canada, 1981-1988.

| Year | Wood industries | Sawmills and planing mills | Veneer and plywood mills | Paper and allied industries | Pulp and paper mills | All manufacturing |
|------|-----------------|----------------------------|--------------------------|-----------------------------|----------------------|-------------------|
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 99.6 | 98.5 | 93.2 | 103.3 | 101.3 | 106.7 |
| 1983 | 109.8 | 111.5 | 101.1 | 99.9 | 95.1 | 110.4 |
| 1984 | 107.6 | 106.6 | 97.4 | 111.2 | 108.5 | 115.4 |
| 1985 | 109.7 | 107.7 | 100.2 | 112.6 | 108.5 | 118.6 |
| 1986 | 118.9 | 117.5 | 115.5 | 117.3 | 113.9 | 119.6 |
| 1987 | 122.0 | 119.2 | 115.5 | 128.4 | 126.6 | 122.8 |
| 1988 | 124.7 | 122.4 | 113.7 | 140.6 | 139.9 | 128.1 |
| 1989 | 128.6 | 125.6 | 121.6 | 144.6 | 143.3 | 131.0 |

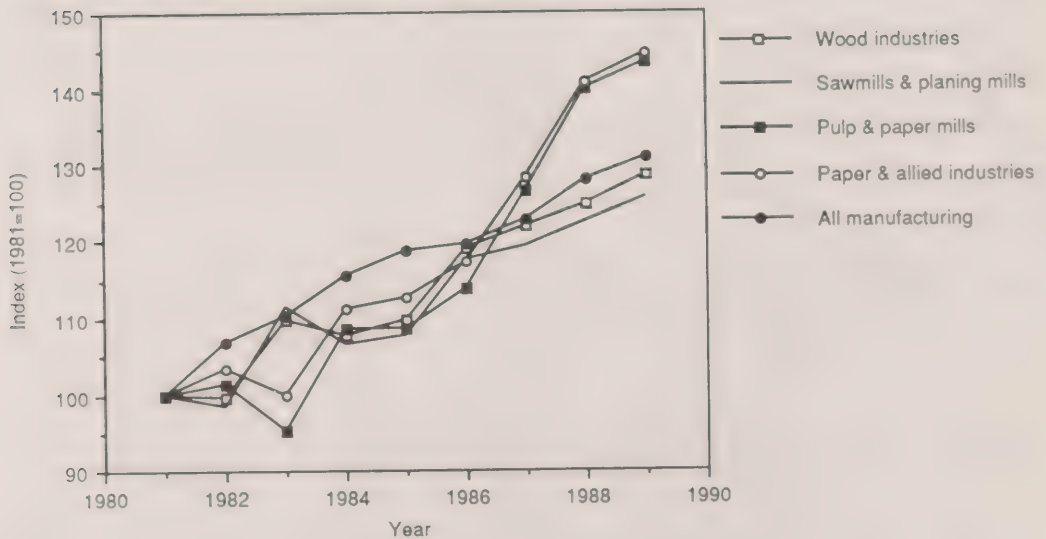


Figure 11. Selected forest industry selling price indices in Canada, 1981-1989.

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.8. Industry price indices for selected forest products, 1981-1989.

| | Softwood lumber | | Veneer and plywood | | Wood pulp bleached paper grades for export | | Newsprint (Export) |
|------|-----------------|--------------|--------------------|------------------|--|-------|-----------------------|
| | Spruce | Jack pine | Birch veneer | Birch plywood | (Sulphate) (Sulphite) | | |
| 1981 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1982 | 94.1 | 96.9 | 89.3 | 101.6 | 93.6 | 92.4 | 104.7 |
| 1983 | 118.1 | 121.9 | 98.7 | 105.3 | 80.9 | 79.7 | 98.7 |
| 1984 | 112.4 | 114.9 | 100.5 | 114.8 | 102.3 | 97.1 | 109.6 |
| 1985 | 118.1 | 109.8 | 85.1 | 113.6 | 87.3 | 83.7 | 119.7 |
| 1986 | 130.1 | 119.1 | 95.4 | 120.9 | 98.2 | 95.6 | 123.0 |
| 1987 | 122.0 | 115.8 | 106.6 | 120.9 | 122.4 | 119.2 | 129.2 |
| 1988 | 106.6 | 107.2 | 102.6 | 116.9 | 143.0 | 138.3 | 137.5 |
| 1989 | 102.7 | 105.3 | 98.8 | 116.1 | 158.8 | 152.9 | 129.4 |

Source: Statistics Canada. Catalogue No. 62-011.

Table 9.9. Summary of housing starts,^a by region, 1975-1989.

| Period | Atlantic | Quebec | Ontario | Prairies | British Columbia | Canada |
|--------|----------|--------|---------|----------|------------------|---------|
| 1975 | 19 538 | 54 741 | 79 968 | 43 057 | 34 152 | 231 456 |
| 1976 | 20 793 | 68 748 | 84 682 | 61 253 | 37 727 | 273 203 |
| 1977 | 16 346 | 57 580 | 79 130 | 60 310 | 32 358 | 245 724 |
| 1978 | 14 095 | 43 671 | 71 710 | 69 573 | 28 618 | 227 667 |
| 1979 | 13 626 | 41 730 | 56 887 | 57 461 | 27 345 | 197 049 |
| 1980 | 10 864 | 29 186 | 40 127 | 40 878 | 37 546 | 158 601 |
| 1981 | 9 316 | 29 645 | 50 161 | 47 266 | 41 585 | 177 973 |
| 1982 | 8 412 | 23 492 | 38 508 | 35 641 | 19 807 | 125 860 |
| 1983 | 14 393 | 40 318 | 54 939 | 30 388 | 22 607 | 162 645 |
| 1984 | 10 834 | 41 902 | 48 171 | 17 824 | 16 169 | 134 900 |
| 1985 | 14 707 | 48 031 | 64 871 | 20 248 | 17 969 | 165 826 |
| 1986 | 15 609 | 60 348 | 81 470 | 21 671 | 20 687 | 199 785 |
| 1987 | 13 841 | 74 179 | 105 213 | 23 859 | 28 944 | 245 986 |
| 1988 | 13 418 | 58 062 | 99 924 | 20 671 | 30 487 | 222 562 |
| 1989 | | | | | | |
| Q1 | 7 000 | 48 000 | 111 000 | 18 000 | 42 000 | 226 000 |
| Q2 | 13 000 | 52 000 | 91 000 | 18 000 | 34 000 | 208 000 |
| Q3 | 16 000 | 43 000 | 90 000 | 24 000 | 42 000 | 215 000 |
| Q4 | 15 000 | 54 000 | 87 000 | 24 000 | 39 000 | 217 000 |

^a Starts in urban centres of 10 000 population and over, seasonally adjusted at annual rates.

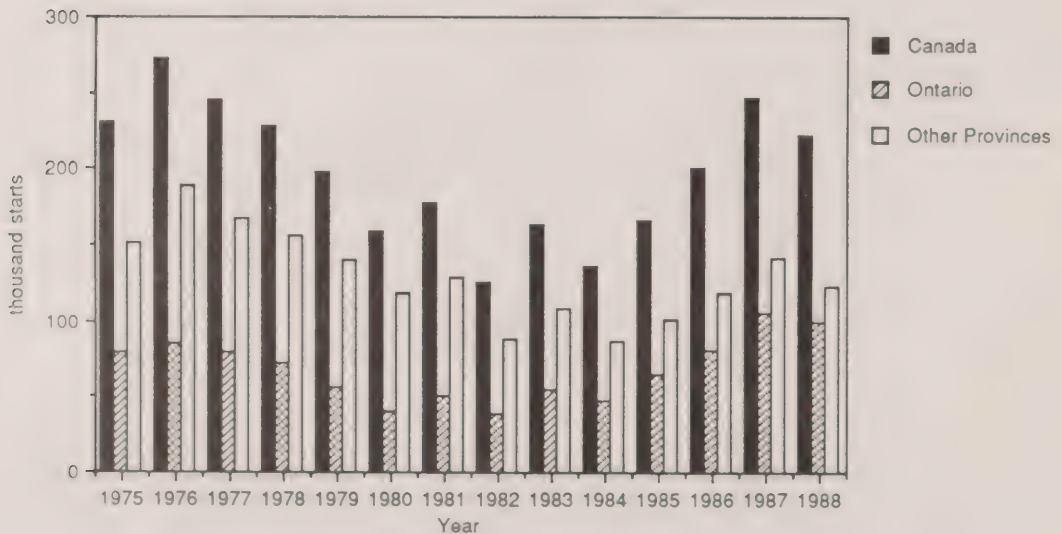


Figure 12. Housing starts in Canada and Ontario, 1975-1989.

Source: Statistics Canada. Catalogue No. 64-002.

Table 9.10. Population by selected northern Ontario census divisions, 1981 and 1986.

| Census divisions | 1981 population | 1986 population | Percentage change from 1981 to 1986 |
|----------------------------------|--------------------|--------------------|---|
| Algoma District | 133 553 | 131 841 | - 1.3 |
| Cochrane District | 96 875 | 93 712 | - 3.4 |
| Kenora District | 59 421 | 52 834 | - 12.5 |
| Manitoulin District | 11 001 | 9 823 | - 12.0 |
| Nipissing District | 80 268 | 79 004 | - 1.6 |
| Parry Sound District | 33 528 | 33 828 | 0.9 |
| Rainy River District | 22 798 | 22 871 | 3.5 |
| Sudbury District | 27 068 | 25 771 | - 5.0 |
| Sudbury Regional Municipality | 159 779 | 152 476 | - 4.8 |
| Thunder Bay District | 153 997 | 155 673 | 1.1 |
| Timiskaming District | 41 288 | 40 307 | - 2.4 |
| Northern Ontario | 819 576 | 798 140 | - 2.7 |
| Southern Ontario | 7 805 531 | 8 303 554 | 6.0 |
| Ontario | 8 625 107 | 9 101 694 | 5.2 |

Source: Statistics Canada, 1986 Census of Canada, Catalogue No. 92-114.

Table 9.11. Population of selected northern Ontario communities, 1981 and 1986.

| Community | 1981 population | 1986 population | Percentage change from 1981 to 1986 |
|-------------------|--------------------|--------------------|---|
| Atikokan | 4 452 | 4 345 | - 2.5 |
| Blind River | 3 444 | 3 553 | 3.1 |
| Dryden | 6 640 | 6 462 | - 2.5 |
| Dubreuilville | 988 | 961 | - 2.8 |
| Elliot Lake | 16 723 | 17 984 | 7.0 |
| Espanola | 5 836 | 5 491 | 6.3 |
| Fort Frances | 8 837 | 8 870 | 0.4 |
| Hearst | 5 533 | 5 559 | 0.5 |
| Iroquois Falls | 6 339 | 6 191 | - 2.4 |
| Kapuskasing | 12 014 | 11 378 | - 5.6 |
| Kenora | 9 817 | 9 621 | - 2.0 |
| Kirkland Lake | 12 219 | 11 604 | - 5.3 |
| Marathon | 2 277 | 3 437 | 33.7 |
| New Liskeard | 5 551 | 5 286 | - 5.0 |
| Nipigon/Red Rock | 4 129 | 3 939 | - 4.8 |
| North Bay | 51 268 | 50 623 | - 1.3 |
| Sault Ste. Marie | 82 697 | 80 905 | - 2.2 |
| Sioux Lookout | 3 074 | 3 098 | 0.8 |
| Smooth Rock Falls | 2 352 | 2 208 | - 6.5 |
| Sturgeon Falls | 6 045 | 5 895 | - 2.5 |
| Sudbury | 91 829 | 88 717 | - 3.5 |
| Thessalon | 1 620 | 1 522 | - 6.4 |
| Thunder Bay | 112 486 | 112 272 | - 0.2 |
| Timmins | 46 114 | 46 657 | 1.2 |

Source: Statistics Canada. 1986 Census of Canada, Catalogue No. 92-114

APPENDIX



Ontario Ministry of Natural Resources Administrative Regions

2

Canadä

10/10

